

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	2,3,7,8-TCDD			1,2,3,7,8-PeCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD			
						TEQ		Lipid	TEQ		Lipid	TEQ		Lipid	Conc	TEQ		Lipid
						Conc	Conc	Norm	Qual	Conc	Conc	Norm	Qual	Conc	Conc	Norm	Qual	Conc
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg
96294094	WB	Bridgelip Sucker	48	F	Yakima River	0.07	0.070	0.93		0.18	0.18	2.4		0.13	0.013	0.17		0.17
96294095	WB	Bridgelip Sucker	48	F	Yakima River	0.06	0.060	0.63		0.18	0.18	1.9		0.12	0.012	0.13		0.14
96294096	WB	Bridgelip Sucker	48	F	Yakima River	0.08	0.080	1.1		0.18	0.18	2.5		0.12	0.012	0.17		0.14
97500950	WB	Channel Catfish	8	F	Columbia River	1.09	1.1	8.3		0.55	0.55	4.2		0.2	0.020	0.15		0.85
97500951	WB	Channel Catfish	8	F	Columbia River	0.66	0.66	4.6		0.37	0.37	2.6		0.2	0.020	0.14		0.7
97500952	WB	Channel Catfish	8	F	Columbia River	0.87	0.87	4.1		0.49	0.49	2.3		0.22	0.022	0.11		0.75
97500956	FS	Channel Catfish	8	B	Columbia River	1	1.0	4.9		0.49	0.49	2.4		0.3	0.030	0.15		1.05
97500957	FS	Channel Catfish	8	C	Columbia River	1.41	1.4	11		0.57	0.57	4.6		0.14	0.014	0.11		0.59
97420931	WB	Coho	30		Umatilla River	0.01	0.010	0.37	U	0.01	0.010	0.37	U	0.01	0.0010	0.037	U	0.01
97420932	WB	Coho	30		Umatilla River	0.05	0.050	1.0		0.06	0.060	1.2	U	0.02	0.0020	0.041	U	0.02
97420933	WB	Coho	30		Umatilla River	0.04	0.040	0.93		0.05	0.050	1.2	U	0.02	0.0020	0.047	U	0.02
97450966	FS	Coho	30		Umatilla River	0.01	0.010	0.39	U	0.06	0.060	2.3		0.01	0.0010	0.038	U	0.05
97450967	FS	Coho	30		Umatilla River	0.04	0.040	1.8		0.05	0.050	2.3		0.01	0.0010	0.045	U	0.01
97450968	FS	Coho	30		Umatilla River	0.01	0.010	0.48		0.01	0.010	0.48	U	0.01	0.0010	0.048	U	0.05
97450970	E	Coho	30		Umatilla River	0.05	0.050	0.60		0.01	0.010	0.12	U	0.01	0.0010	0.012	U	0.08
97450971	E	Coho	30		Umatilla River	0.05	0.050	0.60		0.1	0.10	1.2		0.01	0.0010	0.012	U	0.06
97450972	E	Coho	30		Umatilla River	0.01	0.010	0.13	U	0.01	0.010	0.13	U	0.01	0.0010	0.012	U	0.01
97070800	WB	Eulachon	3	B	Columbia River	0.1	0.10	0.80		0.28	0.28	2.2		0.17	0.017	0.14		0.26
97070801	WB	Eulachon	3	B	Columbia River	0.08	0.080	0.60		0.23	0.23	1.7		0.01	0.0010	0.0075	U	0.22
97070802	WB	Eulachon	3	B	Columbia River	0.05	0.050	0.39		0.21	0.21	1.6		0.1	0.010	0.077		0.1
97380975	WB	Fall Chinook	56		Klickitat River	0.02	0.020	0.19		0.04	0.040	0.39	U	0.02	0.0020	0.019	U	0.02
97380976	WB	Fall Chinook	56		Klickitat River	0.02	0.020	0.20	U	0.03	0.030	0.30	U	0.02	0.0020	0.020	U	0.02
97380977	WB	Fall Chinook	56		Klickitat River	0.03	0.030	0.31		0.04	0.040	0.41	U	0.01	0.0010	0.010	U	0.01
97380981	FS	Fall Chinook	56		Klickitat River	0.02	0.020	0.24	U	0.03	0.030	0.37	U	0.01	0.0010	0.012	U	0.01
97380982	FS	Fall Chinook	56		Klickitat River	0.04	0.040	0.38	U	0.05	0.050	0.47	U	0.02	0.0020	0.019	U	0.02
97380983	FS	Fall Chinook	56		Klickitat River	0.03	0.030	0.44		0.04	0.040	0.59	U	0.02	0.0020	0.029	U	0.02
97380984	WB	Fall Chinook	8	G	Columbia River	0.04	0.040	0.33	U	0.05	0.050	0.42	U	0.04	0.0040	0.033	U	0.04
97380985	WB	Fall Chinook	8	G	Columbia River	0.02	0.020	0.18	U	0.06	0.060	0.55	U	0.04	0.0040	0.036	U	0.04
97380986	WB	Fall Chinook	8	G	Columbia River	0.03	0.030	0.29	U	0.04	0.040	0.38	U	0.03	0.0030	0.029	U	0.03
97380987	FS	Fall Chinook	8	G	Columbia River	0.01	0.010	0.096	U	0.02	0.020	0.19	U	0.01	0.0010	0.096	U	0.01
97380988	FS	Fall Chinook	8	D	Columbia River	0.02	0.020	0.20	U	0.04	0.040	0.40	U	0.01	0.0010	0.099	U	0.05
97380989	FS	Fall Chinook	8	D	Columbia River	0.01	0.010	0.11	U	0.02	0.020	0.21	U	0.01	0.0010	0.11	U	0.03
97380997	FS	Fall Chinook	8	D	Columbia River	0.04	0.040	0.41		0.02	0.020	0.21	U	0.02	0.0020	0.021	U	0.02
97380998	E	Fall Chinook	8	D	Columbia River	0.04	0.040	0.27	U	0.04	0.040	0.27	U	0.01	0.0010	0.067	U	0.01
97400925	WB	Fall Chinook	14		Columbia River	0.03	0.030	0.34	U	0.03	0.030	0.34	U	0.02	0.0020	0.023	U	0.02
97400926	WB	Fall Chinook	14		Columbia River	0.02	0.020	0.27		0.03	0.030	0.41	U	0.03	0.0030	0.041	U	0.03
97400927	WB	Fall Chinook	14		Columbia River	0.02	0.020	0.26		0.02	0.020	0.26	U	0.01	0.0010	0.013	U	0.01
97400928	FS	Fall Chinook	14		Columbia River	0.02	0.020	0.29	U	0.02	0.020	0.29	U	0.03	0.0030	0.043	U	0.03
97400929	FS	Fall Chinook	14		Columbia River	0.02	0.020	0.36	U	0.05	0.050	0.91	U	0.05	0.0050	0.091	U	0.05
97400930	FS	Fall Chinook	14		Columbia River	0.04	0.040	0.57		0.02	0.020	0.29	U	0.02	0.0020	0.029	U	0.02
97420925	WB	Fall Chinook	30		Umatilla River	0.01	0.010	0.17	U	0.01	0.010	0.17	U	0.02	0.0020	0.033	U	0.02
97420926	WB	Fall Chinook	30		Umatilla River	0.04	0.040	0.73		0.01	0.010	0.18	U	0.01	0.0010	0.018	U	0.06
97420927	WB	Fall Chinook	30		Umatilla River	0.02	0.020	0.35	U	0.01	0.010	0.17	U	0.01	0.0010	0.017	U	0.01
97420928	FS	Fall Chinook	30		Umatilla River	0.02	0.020	0.56		0.01	0.010	0.28	U	0.01	0.0010	0.028	U	0.01
97420929	FS	Fall Chinook	30		Umatilla River	0.02	0.020	0.59		0.06	0.060	1.8		0.01	0.0010	0.029	U	0.01
97420930	FS	Fall Chinook	30		Umatilla River	0.01	0.010	0.42	U	0.03	0.030	1.3	U	0.01	0.0010	0.042	U	0.02
97420934	WB	Fall Chinook	48	F	Yakima River	0.06	0.060	0.92	U	0.09	0.090	1.4		0.02	0.0020	0.031	U	0.02
97420935	WB	Fall Chinook	48	F	Yakima River	0.03	0.030	0.53	U	0.05	0.050	0.88	U	0.04	0.0040	0.070	U	0.06
97420936	WB	Fall Chinook	48	F	Yakima River	0.03	0.030	0.40	U	0.08	0.080	1.1		0.02	0.0020	0.027	U	0.07
97420937	FS	Fall Chinook	48	F	Yakima River	0.05	0.050	1.4	U	0.07	0.070	2.0	U	0.07	0.0070	0.20	U	0.07
97420938	FS	Fall Chinook	48	F	Yakima River	0.04	0.040	1.3	U	0.06	0.060	1.9	U	0.03	0.0030	0.097	U	0.03

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						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ	
						Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97420939	FS	Fall Chinook	48	F	Yakima River	0.03	0.030	0.59	U	0.11	0.11	2.2		0.06	0.0060	0.12	U	0.06	0.0060	0.12	U
97420940	FS	Fall Chinook	48	F	Yakima River	0.05	0.050	1.4	U	0.05	0.050	1.4		0.04	0.0040	0.11	U	0.04	0.0040	0.11	U
96284795	WB	Largescala Sucker	30	A	Umatilla River	0.08	0.080	2.3		0.13	0.13	3.7		0.1	0.010	0.29		0.01	0.0010	0.14	U
96284796	WB	Largescala Sucker	30	A	Umatilla River	0.06	0.060	1.7		0.12	0.12	3.4		0.09	0.0090	0.26		0.05	0.0050	0.086	
96284797	WB	Largescala Sucker	30	A	Umatilla River	0.01	0.010	0.23		0.12	0.12	2.8		0.1	0.010	0.23		0.07	0.0070	0.12	
96284798	FS	Largescala Sucker	30	A	Umatilla River	0.06	0.060	5.0		0.12	0.12	9.9		0.09	0.0090	0.75		0.01	0.0010	0.083	U
96294091	WB	Largescala Sucker	48	F	Yakima River	0.07	0.070	1.4		0.19	0.19	3.7		0.12	0.012	0.23		0.16	0.016	0.12	
96294092	WB	Largescala Sucker	48	F	Yakima River	0.01	0.010	0.29		0.17	0.17	4.9		0.11	0.011	0.31		0.13	0.013	0.11	
96294093	WB	Largescala Sucker	48	F	Yakima River	0.1	0.10	2.6		0.23	0.23	5.9		0.14	0.014	0.36		0.21	0.021	0.18	
96374700	FS	Largescala Sucker	30	A	Umatilla River	0.06	0.060	5.0		0.16	0.16	13		0.15	0.015	1.3		0.11	0.011	0.67	
96374701	FS	Largescala Sucker	30	A	Umatilla River	0.01	0.010	0.71		0.11	0.11	7.9		0.11	0.011	0.79		0.06	0.0060	0.071	
96374702	FS	Largescala Sucker	30	A	Umatilla River	0.07	0.070	4.4		0.13	0.13	8.1		0.1	0.010	0.63		0.01	0.0010	0.31	U
96374793	WB	Largescala Sucker	49		Yakima River	0.05	0.050	1.1		0.14	0.14	3.0		0.12	0.012	0.26		0.07	0.0070	0.021	
96374794	WB	Largescala Sucker	49		Yakima River	0.09	0.090	1.1		0.18	0.18	2.3		0.11	0.011	0.14		0.1	0.010	0.037	
96374795	WB	Largescala Sucker	49		Yakima River	0.07	0.070	1.1		0.16	0.16	2.5		0.11	0.011	0.18		0.01	0.0010	0.048	U
96374796	FS	Largescala Sucker	49		Yakima River	0.01	0.010	0.40		0.01	0.010	0.40	U	0.01	0.0010	0.040	U	0.07	0.0070	0.20	
96374797	FS	Largescala Sucker	49		Yakima River	0.04	0.040	1.3		0.12	0.12	4.0		0.09	0.0090	0.30		0.05	0.0050	0.067	
96374798	FS	Largescala Sucker	49		Yakima River	0.02	0.020	0.87	U	0.18	0.18	7.8		0.02	0.0020	0.087	U	0.14	0.014	0.087	
97080800	WB	Largescala Sucker	98	D	Deschutes River	0.02	0.020	0.25		0.14	0.14	1.7		0.13	0.013	0.16		0.14	0.014	0.037	
97080801	WB	Largescala Sucker	98	C	Deschutes River	0.05	0.050	0.71		0.16	0.16	2.3		0.11	0.011	0.16		0.1	0.010	0.071	
97080802	WB	Largescala Sucker	98	B	Deschutes River	0.02	0.020	0.19		0.17	0.17	1.6		0.12	0.012	0.12		0.03	0.0030	0.048	U
97080824	FS	Largescala Sucker	98	E	Deschutes River	0.06	0.060	1.9	U	0.04	0.040	1.3	U	0.11	0.011	0.34	U	0.11	0.011	0.34	U
97080825	FS	Largescala Sucker	98	C	Deschutes River	0.05	0.050	1.4	U	0.03	0.030	0.86	U	0.08	0.0080	0.23	U	0.08	0.0080	0.23	U
97080900	FS	Largescala Sucker	98	A	Deschutes River	0.01	0.010	0.23	U	0.15	0.15	3.4		0.12	0.012	0.27		0.09	0.0090	0.16	
97304975	WB	Largescala Sucker	9	E	Columbia River	0.1	0.10	2.6		0.09	0.090	2.3		0.02	0.0020	0.051	U	0.04	0.0040	0.051	
97304976	WB	Largescala Sucker	9	E	Columbia River	0.01	0.010	0.31	U	0.04	0.040	1.3		0.01	0.0010	0.031	U	0.01	0.0010	0.031	U
97304977	WB	Largescala Sucker	9	F	Columbia River	0.04	0.040	1.7	U	0.04	0.040	1.7		0.01	0.0010	0.042	U	0.04	0.0040	0.042	
97304978	FS	Largescala Sucker	9	F	Columbia River	0.04	0.040	2.1		0.01	0.010	0.53	U	0.02	0.0020	0.11	U	0.02	0.0020	0.11	U
97304979	FS	Largescala Sucker	9	H	Columbia River	0.02	0.020	1.1	U	0.04	0.040	2.1		0.02	0.0020	0.11	U	0.02	0.0020	0.26	U
97304980	FS	Largescala Sucker	9	H	Columbia River	0.01	0.010	0.71		0.02	0.020	1.4		0.01	0.0010	0.071	U	0.03	0.0030	0.21	
97500953	WB	Largescala Sucker	8	F	Columbia River	0.17	0.17	2.7		0.05	0.050	0.78		0.02	0.0020	0.031	U	0.02	0.0020	0.031	U
97500954	WB	Largescala Sucker	8	I	Columbia River	0.21	0.21	3.2		0.09	0.090	1.4		0.03	0.0030	0.046		0.02	0.0020	0.046	
98164075	WB	Largescala Sucker	48	H	Yakima River	0.08	0.080	1.3		0.01	0.010	0.16	U	0.05	0.0050	0.082		0.01	0.0010	0.016	
98164076	WB	Largescala Sucker	48	H	Yakima River	0.1	0.10	2.1		0.14	0.14	2.9		0.01	0.0010	0.021	U	0.1	0.010	0.062	
98164077	WB	Largescala Sucker	48	J	Yakima River	0.02	0.020	0.48		0.01	0.010	0.24	U	0.02	0.0020	0.048		0.01	0.0010	0.024	
98164078	FS	Largescala Sucker	48	J	Yakima River	0.03	0.030	1.1		0.1	0.10	3.6		0.04	0.0040	0.14	U	0.08	0.0080	0.14	
98164079	FS	Largescala Sucker	48	I	Yakima River	0.04	0.040	1.9	U	0.03	0.030	1.4	U	0.03	0.0030	0.14	U	0.03	0.0030	0.14	U
98164080	FS	Largescala Sucker	48	I	Yakima River	0.04	0.040	1.1	U	0.01	0.010	0.29	U	0.01	0.0010	0.029	U	0.06	0.0060	0.029	
98184125	WB	Largescala Sucker	13	E	Snake River	0.03	0.030	0.60	U	0.03	0.030	0.60	U	0.02	0.0020	0.040		0.02	0.0020	0.040	
98184126	WB	Largescala Sucker	13	E	Snake River	0.02	0.020	0.74	U	0.02	0.020	0.74	U	0.02	0.0020	0.074		0.01	0.0010	0.11	
98184127	WB	Largescala Sucker	13	C	Snake River	0.03	0.030	0.83		0.03	0.030	0.83		0.01	0.0010	0.028	U	0.01	0.0010	0.056	U
98184128	FS	Largescala Sucker	13	C	Snake River	0.01	0.010	0.50		0.04	0.040	2.0		0.01	0.0010	0.050	U	0.04	0.0040	0.100	
98184129	FS	Largescala Sucker	13	D	Snake River	0.01	0.010	0.59	U	0.02	0.020	1.2		0.01	0.0010	0.059	U	0.01	0.0010	0.12	U
98184130	FS	Largescala Sucker	13	D	Snake River	0.02	0.020	1.4	U	0.01	0.010	0.71	U	0.01	0.0010	0.071	U	0.02	0.0020	0.071	
96284904	WB	Mountain Whitefish	101		Umatilla River	0.09	0.090	0.93		0.21	0.21	2.2		0.11	0.011	0.11		0.18	0.018	0.062	
96284905	WB	Mountain Whitefish	101	A	Umatilla River	0.01	0.010	0.087		0.18	0.18	1.6		0.11	0.011	0.096		0.14	0.014	0.043	
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	0.1	0.10	0.93		0.2	0.20	1.9		0.12	0.012	0.11		0.18	0.018	0.046	
96284907	FS	Mountain Whitefish	101	A	Umatilla River	0.07	0.070	1.2		0.16	0.16	2.7		0.1	0.010	0.17		0.13	0.013	0.083	
96284908	FS	Mountain Whitefish	101	A	Umatilla River	0.01	0.010	0.18	U	0.15	0.15	2.7		0.1	0.010	0.18		0.1	0.010	0.054	
96284909	FS	Mountain Whitefish	101		Umatilla River	0.05	0.050	0.81		0.15	0.15	2.4		0.1	0.010	0.16		0.1	0.010	0.048	
97080804	WB	Mountain Whitefish	98	D	Deschutes River	0.07	0.070	1.6		0.2	0.20	4.7		0.12	0.012	0.28		0.22	0.022	0.19	

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						TEQ		Lipid Norm	TEQ		Lipid Norm	TEQ		Lipid Norm	TEQ		Lipid Norm			
						Conc	Conc		Conc	Conc		Conc	Conc		Conc	Conc				
						ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid			
97080805	WB	Mountain Whitefish	98	C	Deschutes River	0.05	0.050	1.1	0.24	0.24	5.3	0.13	0.013	0.29	0.27	0.027	0.20			
97080806	WB	Mountain Whitefish	98	B	Deschutes River	0.08	0.080	1.6	0.03	0.030	0.59	U	0.15	0.015	0.29	0.22	0.022	0.14		
97080807	FS	Mountain Whitefish	98	A	Deschutes River	0.08	0.080	3.3	0.19	0.19	7.9	0.14	0.014	0.58	0.2	0.020	0.42			
97080808	FS	Mountain Whitefish	98	A	Deschutes River	0.06	0.060	2.3	0.21	0.21	8.1	0.12	0.012	0.46	0.2	0.020	0.46			
97080809	FS	Mountain Whitefish	98	B	Deschutes River	0.06	0.060	5.0	0.16	0.16	13	0.01	0.0010	0.083	U	0.16	0.016	0.50		
97080810	FS	Mountain Whitefish	98	A	Deschutes River	0.05	0.050	1.7	0.18	0.18	6.2	0.13	0.013	0.45	0.15	0.015	0.31			
97470990	WB	Mountain Whitefish	9	Q	Columbia River	0.15	0.15	1.9	0.19	0.19	2.4	0.01	0.0010	0.012	U	0.01	0.0010	0.14		
97470991	WB	Mountain Whitefish	9	Q	Columbia River	0.21	0.21	2.2	0.02	0.020	0.21	U	0.09	0.0090	0.095	0.05	0.0050	0.053		
97470992	WB	Mountain Whitefish	9	P	Columbia River	0.16	0.16	2.0	0.17	0.17	2.1	0.02	0.0020	0.025	U	0.11	0.011	0.025		
97470993	FS	Mountain Whitefish	9	O	Columbia River	0.2	0.20	2.9	0.17	0.17	2.5	0.03	0.0030	0.043	0.12	0.012	0.087			
97470994	FS	Mountain Whitefish	9	O	Columbia River	0.21	0.21	2.7	0.18	0.18	2.3	0.04	0.0040	0.052	0.12	0.012	0.013			
97470995	FS	Mountain Whitefish	9	N	Columbia River	0.21	0.21	2.8	0.17	0.17	2.3	0.03	0.0030	0.041	0.13	0.013	0.081			
98124160	WB	Mountain Whitefish	48	F	Yakima River	0.19	0.19	2.0	0.27	0.27	2.9	0.06	0.0060	0.064	0.03	0.0030	0.064			
98124161	WB	Mountain Whitefish	48	F	Yakima River	0.23	0.23	2.8	0.03	0.030	0.37	U	0.07	0.0070	0.086	0.29	0.029	0.11		
98124162	WB	Mountain Whitefish	48	F	Yakima River	0.14	0.14	1.4	0.2	0.20	1.9	0.01	0.0010	0.0096	U	0.2	0.020	0.096		
98124165	FS	Mountain Whitefish	48	F	Yakima River	0.05	0.050	0.60	0.02	0.020	0.24	U	0.07	0.0070	0.083	U	0.11	0.011	0.083	
98124166	FS	Mountain Whitefish	48	F	Yakima River	0.13	0.13	1.7	0.22	0.22	2.9	0.03	0.0030	0.039	U	0.17	0.017	0.039		
98124167	FS	Mountain Whitefish	48	F	Yakima River	0.18	0.18	2.1	U	0.23	0.23	2.7	0.06	0.0060	0.070	0.22	0.022	0.012		
96254770	WB	Pacific lamprey	21		Willamette River	0.02	0.020	0.093	U	0.14	0.14	0.65	0.1	0.010	0.047	0.17	0.017	0.047		
96254771	WB	Pacific lamprey	21		Willamette River	0.02	0.020	0.10	0.14	0.14	0.71	0.01	0.0010	0.0051	U	0.18	0.018	0.031		
96254772	WB	Pacific lamprey	21		Willamette River	0.07	0.070	0.37	0.14	0.14	0.75	0.11	0.011	0.059	0.17	0.017	0.032			
97220910	WB	Pacific lamprey	21		Willamette River	0.02	0.020	0.14	0.15	0.15	1.0	0.13	0.013	0.090	0.16	0.016	0.041			
97220911	WB	Pacific lamprey	21		Willamette River	0.03	0.030	0.17	U	0.07	0.070	0.39	0.04	0.0040	0.022	0.02	0.0020	0.017		
97220912	WB	Pacific lamprey	21		Willamette River	0.05	0.050	0.27	0.03	0.030	0.16	U	0.03	0.0030	0.016	U	0.03	0.0030	0.016	
97220915	FS	Pacific lamprey	21		Willamette River	0.01	0.010	0.051	0.17	0.17	0.86	0.11	0.011	0.056	0.21	0.021	0.036			
97220916	FS	Pacific lamprey	21		Willamette River	0.06	0.060	0.32	0.13	0.13	0.70	0.1	0.010	0.054	0.16	0.016	0.027			
97220917	FS	Pacific lamprey	21		Willamette River	0.03	0.030	0.14	0.04	0.040	0.18	U	0.04	0.0040	0.018	U	0.17	0.017	0.018	
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	0.03	0.030	0.17	U	0.02	0.020	0.12	U	0.02	0.0020	0.011	U	0.21	0.021	0.011
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	0.04	0.040	0.22	U	0.03	0.030	0.16	U	0.03	0.0030	0.016	U	0.21	0.021	0.038
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	0.06	0.060	0.32	0.02	0.020	0.11	U	0.02	0.0020	0.011	U	0.25	0.025	0.011	
96284845	WB	Rainbow Trout	101		Umatilla River	0.01	0.010	0.21	0.14	0.14	2.9	0.11	0.011	0.23	0.07	0.0070	0.083			
96284846	WB	Rainbow Trout	101	B	Thomas Creek	0.01	0.010	0.22	0	0.14	3.1	0.1	0.010	0.22	0.08	0.0080	0.089			
96284990	WB	Rainbow Trout	101	C	Mecham Creek	0.07	0.070	2.5	0.16	0.16	5.7	0.1	0.010	0.36	0.12	0.012	0.18			
96284991	WB	Rainbow Trout	101	C	Mecham Creek	0.06	0.060	1.8	0.17	0.17	5.2	0.13	0.013	0.39	0.13	0.013	0.18			
96374730	FS	Rainbow Trout	49		Yakima River	0.09	0.090	2.7	0.01	0.010	0.29	U	0.12	0.012	0.35	0.1	0.010	0.029		
96374731	FS	Rainbow Trout	49		Yakima River	0.15	0.15	4.7	U	0.33	0.33	10	0.27	0.027	0.84	0.02	0.0020	1.00		
96374732	FS	Rainbow Trout	49		Yakima River	0.13	0.13	3.5	0.2	0.20	5.4	0.11	0.011	0.30	0.12	0.012	0.11			
96374765	WB	Rainbow Trout	49		Yakima River	0.2	0.20	2.9	0.26	0.26	3.8	0.14	0.014	0.21	0.21	0.021	0.088			
96374766	WB	Rainbow Trout	49		Yakima River	0.16	0.16	2.8	0.22	0.22	3.8	0.13	0.013	0.22	0.17	0.017	0.086			
96374767	WB	Rainbow Trout	49		Yakima River	0.14	0.14	2.4	0.21	0.21	3.6	0.12	0.012	0.21	0.01	0.0010	0.017			
97080803	WB	Rainbow Trout	98	A	Deschutes River	0.07	0.070	1.5	0.22	0.22	4.6	0.12	0.012	0.25	0.26	0.026	0.21			
97080821	WB	Rainbow Trout	98	E	Deschutes River	0.06	0.060	1.4	U	0.05	0.050	1.2	U	0.1	0.010	0.23	U	0.1	0.010	0.23
97080822	WB	Rainbow Trout	98	D	Deschutes River	0.07	0.070	1.7	0.21	0.21	5.0	0.11	0.011	0.26	0.2	0.020	0.17			
97080823	FS	Rainbow Trout	98	B	Deschutes River	0.06	0.060	1.9	0.19	0.19	5.9	0.13	0.013	0.41	0.05	0.0050	0.19	U		
97170950	FS	Rainbow Trout	98	E	Deschutes River	0.06	0.060	1.7	0.02	0.020	0.57	U	0.1	0.010	0.29	0.17	0.017	0.11		
97170951	FS	Rainbow Trout	98	D	Deschutes River	0.01	0.010	0.32	0.16	0.16	5.2	0.01	0.0010	0.032	U	0.21	0.021	0.23		
97170952	FS	Rainbow Trout	98	C	Deschutes River	0.01	0.010	0.31	U	0.16	0.16	5.0	0.1	0.010	0.31	0.16	0.016	0.16		
97330975	WB	Rainbow Trout	56	B	Klickitat River	0.1	0.10	1.6	U	0.04	0.040	0.64	U	0.03	0.0030	0.048	U	0.07	0.0070	0.048
97330976	WB	Rainbow Trout	56	F	Klickitat River	0.02	0.020	0.27	U	0.05	0.050	0.68	U	0.02	0.0020	0.027	U	0.02	0.0020	0.068
97200840	WB	Spring Chinook	30		Umatilla River	0.04	0.040	0.23	0.03	0.030	0.18	U	0.12	0.012	0.070	0.08	0.0080	0.023		
97200841	WB	Spring Chinook	30		Umatilla River	0.04	0.040	0.26	U	0.17	0.17	1.1	0.11	0.011	0.072	0.04	0.0040	0.033		

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	2,3,7,8-TCDD			1,2,3,7,8-PeCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD		
						TEQ		Lipid	TEQ		Lipid	TEQ		Lipid	TEQ		Lipid
						Conc	Conc	Norm	Qual	Conc	Conc	Norm	Qual	Conc	Conc	Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97200842	WB	Spring Chinook	30		Umatilla River	0.03	0.030	0.20	U	0.21	0.21	1.4		0.14	0.014	0.092	
97200843	FS	Spring Chinook	30		Umatilla River	0.04	0.040	0.25	U	0.13	0.13	0.82		0.13	0.013	0.082	
97200844	FS	Spring Chinook	30		Umatilla River	0.02	0.020	0.15		0.18	0.18	1.3		0.02	0.0020	0.015	U
97200845	FS	Spring Chinook	30		Umatilla River	0.03	0.030	0.20	U	0.02	0.020	0.13	U	0.04	0.0040	0.026	U
97200846	E	Spring Chinook	30		Umatilla River	0.04	0.040	0.22		0.15	0.15	0.82		0.12	0.012	0.066	
97200847	E	Spring Chinook	30		Umatilla River	0.01	0.010	0.053		0.15	0.15	0.79		0.02	0.0020	0.011	U
97200848	E	Spring Chinook	30		Umatilla River	0.03	0.030	0.16	U	0.14	0.14	0.76		0.1	0.010	0.054	
97220900	WB	Spring Chinook	48	G	Yakima River	0.1	0.10	0.68		0.2	0.20	1.4		0.13	0.013	0.088	
97220901	WB	Spring Chinook	48	G	Yakima River	0.03	0.030	0.22		0.38	0.38	2.8		0.19	0.019	0.14	0.25
97220902	WB	Spring Chinook	48	G	Yakima River	0.02	0.020	0.13		0.09	0.090	0.60		0.03	0.0030	0.020	U
97220903	FS	Spring Chinook	48	G	Yakima River	0.04	0.040	0.34		0.09	0.090	0.76		0.03	0.0030	0.025	U
97220904	FS	Spring Chinook	48	G	Yakima River	0.02	0.020	0.19		0.02	0.020	0.19	U	0.03	0.0030	0.028	U
97220905	FS	Spring Chinook	48	G	Yakima River	0.03	0.030	0.20		0.03	0.030	0.20	U	0.03	0.0030	0.020	U
97250800	WB	Spring Chinook	94		Looking Glass Creek	0.04	0.040	0.32		0.02	0.020	0.16	U	0.01	0.0010	0.080	U
97250801	WB	Spring Chinook	94		Looking Glass Creek	0.04	0.040	0.28		0.02	0.020	0.14	U	0.02	0.0020	0.014	U
97250802	WB	Spring Chinook	94		Looking Glass Creek	0.01	0.010	0.075		0.02	0.020	0.15	U	0.01	0.0010	0.075	U
97250803	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.010	0.093		0.08	0.080	0.75		0.02	0.0020	0.019	U
97250804	FS	Spring Chinook	94		Looking Glass Creek	0.02	0.020	0.18		0.02	0.020	0.18	U	0.02	0.0020	0.018	0.07
97250805	FS	Spring Chinook	94		Looking Glass Creek	0.02	0.020	0.16		0.12	0.12	0.95		0.03	0.0030	0.024	0.07
97250806	FS	Spring Chinook	94		Looking Glass Creek	0.02	0.020	0.17		0.09	0.090	0.74		0.01	0.0010	0.083	U
97250807	E	Spring Chinook	94		Looking Glass Creek	0.04	0.040	0.21	U	0.06	0.060	0.32	U	0.06	0.0060	0.032	U
97250808	E	Spring Chinook	94		Looking Glass Creek	0.01	0.010	0.051	U	0.01	0.010	0.051	U	0.01	0.0010	0.051	0.04
97250809	E	Spring Chinook	94		Looking Glass Creek	0.04	0.040	0.22		0.05	0.050	0.28		0.01	0.0010	0.055	U
97250811	WB	Spring Chinook	51		Icicle Creek	0.04	0.040	0.36		0.03	0.030	0.27	U	0.06	0.0060	0.054	U
97250812	WB	Spring Chinook	51		Icicle Creek	0.02	0.020	0.17		0.17	0.17	1.4		0.05	0.0050	0.042	0.01
97250813	WB	Spring Chinook	51		Icicle Creek	0.03	0.030	0.30		0.11	0.11	1.1		0.02	0.0020	0.020	U
97250814	FS	Spring Chinook	51		Icicle Creek	0.04	0.040	0.44		0.13	0.13	1.4		0.01	0.0010	0.11	U
97250815	FS	Spring Chinook	51		Icicle Creek	0.03	0.030	0.34	U	0.1	0.10	1.1		0.04	0.0040	0.045	0.08
97250816	FS	Spring Chinook	51		Icicle Creek	0.05	0.050	0.57	U	0.13	0.13	1.5		0.01	0.0010	0.11	U
97250820	WB	Spring Chinook	63		Wind River	0.01	0.010	0.098		0.01	0.010	0.098	U	0.01	0.0010	0.098	U
97250821	WB	Spring Chinook	63		Wind River	0.02	0.020	0.16		0.01	0.010	0.081	U	0.02	0.0020	0.016	0.06
97250822	WB	Spring Chinook	63		Wind River	0.01	0.010	0.085		0.01	0.010	0.085	U	0.01	0.0010	0.034	U
97250823	FS	Spring Chinook	63		Wind River	0.02	0.020	0.28		0.03	0.030	0.42	U	0.02	0.0020	0.028	U
97250824	FS	Spring Chinook	63		Wind River	0.01	0.010	0.11		0.01	0.010	0.11	U	0.02	0.0020	0.021	0.07
97250825	FS	Spring Chinook	63		Wind River	0.03	0.030	0.31		0.08	0.080	0.83		0.06	0.0060	0.062	0.12
97260975	WB	Spring Chinook	62		Little White Salmon River	0.03	0.030	0.23	U	0.03	0.030	0.23	U	0.04	0.0040	0.031	U
97260976	WB	Spring Chinook	62		Little White Salmon River	0.01	0.010	0.092		0.02	0.020	0.18	U	0.03	0.0030	0.028	U
97260977	WB	Spring Chinook	62		Little White Salmon River	0.01	0.010	0.091		0.08	0.080	0.73		0.01	0.0010	0.091	0.07
97260978	FS	Spring Chinook	62		Little White Salmon River	0.02	0.020	0.22		0.01	0.010	0.11	U	0.01	0.0010	0.11	U
97260979	FS	Spring Chinook	62		Little White Salmon River	0.02	0.020	0.18		0.11	0.11	1.0		0.02	0.0020	0.018	0.06
97260980	FS	Spring Chinook	62		Little White Salmon River	0.01	0.010	0.10		0.07	0.070	0.72		0.03	0.0030	0.031	0.01
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.02	0.020	0.28		0.01	0.010	0.14	U	0.01	0.0010	0.14	U
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.01	0.010	0.14		0.01	0.010	0.14	U	0.01	0.0010	0.14	0.09
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.03	0.030	0.36	U	0.01	0.010	0.12	U	0.04	0.0040	0.048	U
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.040	0.80		0.06	0.060	1.2		0.02	0.0020	0.040	U
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.01	0.010	0.18		0.01	0.010	0.18	U	0.02	0.0020	0.036	0.06
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.02	0.020	0.28		0.02	0.020	0.28	U	0.02	0.0020	0.028	0.08
97320852	WB	Spring Chinook	56	A	Klickitat River	0.01	0.010	0.24		0.08	0.080	1.9		0.02	0.0020	0.048	0.06
97320853	WB	Spring Chinook	56	A	Klickitat River	0.01	0.010	0.20		0.14	0.14	2.9		0.03	0.0030	0.061	0.01
97320854	WB	Spring Chinook	56	A	Klickitat River	0.02	0.020	0.44		0.14	0.14	3.0		0.02	0.0020	0.043	U
97320855	FS	Spring Chinook	56	A	Klickitat River	0.03	0.030	1.4		0.01	0.010	0.46	U	0.01	0.0010	0.45	U

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	2,3,7,8-TCDD			1,2,3,7,8-PeCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD						
						TEQ		Lipid Norm	TEQ		Lipid Norm	TEQ		Lipid Norm	TEQ		Lipid Norm				
						Conc	Conc		Conc	Conc		Conc	Conc		Conc	Conc					
						ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid				
97320856	FS	Spring Chinook	56	A	Klickitat River	0.02	0.020	0.67	0.09	0.090	3.0	0.01	0.0010	0.033	U	0.01	0.0010	0.20	U		
97320857	FS	Spring Chinook	56	A	Klickitat River	0.02	0.020	0.63	0.02	0.020	0.63	U	0.01	0.0010	0.031	U	0.01	0.0010	0.031	U	
97090980	FS	Steelhead	96		Clearwater River	0.07	0.070	1.6	0.03	0.030	0.68	U	0.11	0.011	0.25		0.09	0.0090	0.11		
97090981	FS	Steelhead	96		Clearwater River	0.04	0.040	1.1	0.04	0.040	1.1	U	0.07	0.0070	0.18	U	0.07	0.0070	0.18	U	
97090982	FS	Steelhead	96		Clearwater River	0.08	0.080	2.1	0.07	0.070	1.8	U	0.09	0.0090	0.24	U	0.09	0.0090	0.24	U	
97090983	WB	Steelhead	96		Clearwater River	0.02	0.020	0.35	0.22	0.22	3.9	U	0.13	0.013	0.23		0.11	0.011	0.11		
97090984	WB	Steelhead	96		Clearwater River	0.02	0.020	0.34	0.24	0.24	4.1		0.02	0.0020	0.034	U	0.02	0.0020	0.034	U	
97090985	WB	Steelhead	96		Clearwater River	0.06	0.060	1.1	0.26	0.26	4.6		0.14	0.014	0.25		0.15	0.015	0.035		
97090986	FS	Steelhead	96		Clearwater River	0.07	0.070	1.4	0.28	0.28	5.6		0.13	0.013	0.26		0.12	0.012	0.10		
97140810	WB	Steelhead	93	A	Snake River	0.01	0.010	0.18	0.01	0.010	0.18	U	0.1	0.010	0.18		0.1	0.010	0.018		
97140811	WB	Steelhead	93	A	Snake River	0.05	0.050	0.91	0.15	0.15	2.7		0.02	0.0020	0.036	U	0.08	0.0080	0.036		
97140812	WB	Steelhead	93	A	Snake River	0.02	0.020	0.54	0.01	0.010	0.27	U	0.01	0.0010	0.027	U	0.01	0.0010	0.027	U	
97140815	FS	Steelhead	93	A	Snake River	0.01	0.010	0.26	0.02	0.020	0.53	U	0.08	0.0080	0.21		0.02	0.0020	0.053	U	
97140816	FS	Steelhead	93	A	Snake River	0.01	0.010	0.31	0.01	0.010	0.31	U	0.12	0.012	0.38		0.08	0.0080	0.094		
97140817	FS	Steelhead	93	A	Snake River	0.05	0.050	1.4	0.16	0.16	4.3		0.1	0.010	0.27		0.01	0.010	0.027	U	
97380978	WB	Steelhead	56		Klickitat River	0.03	0.030	0.20	0.09	0.090	0.61		0.01	0.0010	0.068	U	0.06	0.0060	0.068		
97380979	WB	Steelhead	56		Klickitat River	0.03	0.030	0.22	0.04	0.040	0.29	U	0.04	0.0040	0.029	U	0.04	0.0040	0.029	U	
97380980	WB	Steelhead	56		Klickitat River	0.01	0.010	0.064	U	0.01	0.010	0.064	U	0.01	0.0010	0.064	U	0.01	0.0010	0.064	U
97380990	WB	Steelhead	8	D	Columbia River	0.02	0.020	0.16	0.04	0.040	0.32	U	0.03	0.0030	0.024		0.02	0.0020	0.016	U	
97380991	WB	Steelhead	8	E	Columbia River	0.05	0.050	0.31	0.05	0.050	0.31	U	0.02	0.0020	0.012	U	0.03	0.0030	0.019		
97380992	WB	Steelhead	8	E	Columbia River	0.02	0.020	0.15	U	0.04	0.040	0.29	U	0.02	0.0020	0.015	U	0.02	0.0020	0.015	U
97380993	FS	Steelhead	8	E	Columbia River	0.05	0.050	0.54	U	0.06	0.060	0.65		0.02	0.0020	0.022	U	0.02	0.0020	0.022	U
97380994	FS	Steelhead	8	H	Columbia River	0.04	0.040	0.43	U	0.04	0.040	0.43	U	0.03	0.0030	0.032	U	0.03	0.0030	0.032	U
97380995	FS	Steelhead	8	H	Columbia River	0.02	0.020	0.29	U	0.01	0.010	0.15	U	0.01	0.0010	0.015	U	0.05	0.0050	0.015	
97380999	E	Steelhead	8	E	Columbia River	0.03	0.030	0.26	U	0.03	0.030	0.26	U	0.02	0.0020	0.017	U	0.02	0.0020	0.017	U
97390800	FS	Steelhead	56		Klickitat River	0.03	0.030	0.37	0.03	0.030	0.37		0.02	0.0020	0.025	U	0.02	0.0020	0.025	U	
97390801	FS	Steelhead	56		Klickitat River	0.02	0.020	0.20	0.08	0.080	0.82		0.02	0.0020	0.020	U	0.02	0.0020	0.020	U	
97390802	FS	Steelhead	56		Klickitat River	0.03	0.030	0.29	0.04	0.040	0.39	U	0.03	0.0030	0.029	U	0.03	0.0030	0.029	U	
98064090	FS	Steelhead	8	D	Columbia River	0.02	0.020	0.46	0.1	0.10	2.3		0.02	0.0020	0.045		0.01	0.0010	0.023	U	
98064091	FS	Steelhead	8	D	Columbia River	0.01	0.010	0.25	0.11	0.11	2.8		0.02	0.0020	0.050	U	0.02	0.0020	0.050	U	
98064092	FS	Steelhead	8	F	Columbia River	0.01	0.010	0.14	0.11	0.11	1.5		0.02	0.0020	0.028	U	0.02	0.0020	0.056	U	
98064093	WB	Steelhead	8	D	Columbia River	0.06	0.060	0.88	U	0.19	0.19	2.8		0.01	0.0010	0.015	U	0.01	0.0010	0.059	U
98064094	WB	Steelhead	8	F	Columbia River	0.01	0.010	0.13	0.01	0.010	0.13	U	0.01	0.0010	0.013	U	0.06	0.0060	0.053		
98064095	WB	Steelhead	8	F	Columbia River	0.01	0.010	0.12	U	0.11	0.11	1.3		0.01	0.0010	0.012	U	0.07	0.0070	0.012	
98124150	WB	Steelhead	48	F	Yakima River	0.03	0.030	1.4	0.02	0.020	0.91	U	0.03	0.0030	0.14		0.08	0.0080	0.091		
98124151	WB	Steelhead	48	F	Yakima River	0.03	0.030	1.0	0.09	0.090	3.1		0.01	0.0010	0.034	U	0.01	0.0010	0.17	U	
98124152	WB	Steelhead	48	F	Yakima River	0.03	0.030	1.4	U	0.05	0.050	2.3		0.02	0.0020	0.091	U	0.07	0.0070	0.14	
98124153	FS	Steelhead	48	F	Yakima River	0.02	0.020	1.1	0.04	0.040	2.1		0.02	0.0020	0.11		0.02	0.0020	0.16	U	
98124154	FS	Steelhead	48	F	Yakima River	0.03	0.030	0.88	U	0.09	0.090	2.7		0.01	0.0010	0.029	U	0.05	0.0050	0.029	
98124155	FS	Steelhead	48	F	Yakima River	0.04	0.040	1.3	0.07	0.070	2.3		0.02	0.0020	0.067		0.01	0.0010	0.13	U	
98144100	WB	Steelhead	25		Hood River	0.04	0.040	1.5	0.05	0.050	1.9	U	0.04	0.0040	0.15	U	0.04	0.0040	0.15	U	
98144101	WB	Steelhead	25		Hood River	0.02	0.020	0.57	0.01	0.010	0.29	U	0.02	0.0020	0.057	U	0.02	0.0020	0.057	U	
98144102	WB	Steelhead	25		Hood River	0.02	0.020	0.42	0.01	0.010	0.21	U	0.02	0.0020	0.042	U	0.02	0.0020	0.042	U	
98144103	FS	Steelhead	25		Hood River	0.03	0.030	1.9	0.07	0.070	4.4		0.03	0.0030	0.19	U	0.03	0.0030	0.19	U	
98144104	FS	Steelhead	25		Hood River	0.04	0.040	1.7	0.12	0.12	5.0		0.03	0.0030	0.13	U	0.03	0.0030	0.13	U	
98144105	FS	Steelhead	25		Hood River	0.01	0.010	0.46	U	0.05	0.050	2.3		0.02	0.0020	0.091		0.04	0.0040	0.091	
96284741	FS	Walleye	30	B	Umatilla River	0.07	0.070	4.7	0.11	0.11	7.3		0.09	0.0090	0.60		0.04	0.0040	0.13		
96284742	FS	Walleye	30	B	Umatilla River	0.08	0.080	5.3	0.12	0.12	8.0		0.08	0.0080	0.53		0.05	0.0050	0.13		
96284743	FS	Walleye	30	B	Umatilla River	0.08	0.080	6.2	0.01	0.010	0.77	U	0.09	0.0090	0.69		0.05	0.0050	0.077		
96284744	WB	Walleye	30	B	Umatilla River	0.38	0.38	4.8	0.27	0.27	3.4		0.13	0.013	0.16		0.2	0.020	0.100		
97490850	WB	Walleye	7	B	Columbia River	0.42	0.42	6.1	0.25	0.25	3.6		0.04	0.0040	0.058		0.17	0.017	0.087		

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	2,3,7,8-TCDD			1,2,3,7,8-PeCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD					
						TEQ		Lipid Norm	Qual	TEQ		Lipid Norm	Qual	TEQ		Lipid Norm	Qual			
						Conc	Conc			Conc	Conc			Conc	Conc					
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid				
97490851	WB	Walleye	7	D	Columbia River	0.36	0.36	4.8		0.19	0.19	2.5		0.02	0.0020	0.027	0.12	0.012	0.040	
97080811	FW	White Sturgeon	6	C	Columbia River	0.4	0.40	8.3		0.18	0.18	3.8		0.13	0.013	0.27	0.15	0.015	0.21	
97080812	FW	White Sturgeon	6	C	Columbia River	0.37	0.37	9.7		0.01	0.010	0.26	U	0.1	0.010	0.26	0.12	0.012	0.18	
97080813	FW	White Sturgeon	6	C	Columbia River	0.23	0.23	15		0.15	0.15	10		0.12	0.012	0.80	0.12	0.012	0.47	
97080814	FW	White Sturgeon	6	C	Columbia River	0.26	0.26	8.4		0.01	0.010	0.32	U	0.12	0.012	0.39	0.11	0.011	0.23	
97080815	FW	White Sturgeon	7	A	Columbia River	0.32	0.32	6.0		0.16	0.16	3.0		0.16	0.016	0.30	0.03	0.0030	0.19	
97080816	FW	White Sturgeon	7	A	Columbia River	0.13	0.13	7.2		0.12	0.12	6.7		0.09	0.0090	0.50	0.08	0.0080	0.056	
97080817	FW	White Sturgeon	7	A	Columbia River	0.52	0.52	6.8		0.15	0.15	2.0		0.13	0.013	0.17	0.23	0.023	0.11	
97080818	FW	White Sturgeon	8	F	Columbia River	0.28	0.28	6.8		0.13	0.13	3.2		0.11	0.011	0.27	0.16	0.016	0.12	
97080819	FW	White Sturgeon	8	F	Columbia River	0.52	0.52	5.2		0.18	0.18	1.8		0.15	0.015	0.15	0.08	0.0080	0.080	
97080820	FW	White Sturgeon	8	F	Columbia River	0.5	0.50	5.5		0.15	0.15	1.7		0.14	0.014	0.15	0.26	0.026	0.066	
97130800	WB	White Sturgeon	8	E	Columbia River	0.45	0.45	6.3		0.01	0.010	0.14	U	0.13	0.013	0.18	0.25	0.025	0.099	
97130801	WB	White Sturgeon	8	B	Columbia River	0.5	0.50	7.0		0.17	0.17	2.4		0.01	0.0010	0.014	U	0.24	0.024	0.070
97130802	WB	White Sturgeon	8	E	Columbia River	0.89	0.89	12		0.01	0.010	0.13	U	0.12	0.012	0.16	0.02	0.0020	0.026	
97140800	FW	White Sturgeon	13	E	Snake River	0.18	0.18	2.8	U	0.15	0.15	2.3		0.13	0.013	0.20	0.01	0.0010	0.077	
97140801	FW	White Sturgeon	13	E	Snake River	0.01	0.010	0.16	U	0.01	0.010	0.16	U	0.12	0.012	0.19	0.13	0.013	0.032	
97320850	FW	White Sturgeon	13	F	Snake River	0.33	0.33	2.3		0.09	0.090	0.64		0.02	0.0020	0.014	U	0.31	0.031	0.014
97320851	FW	White Sturgeon	13	F	Snake River	0.63	0.63	5.9	U	0.15	0.15	1.4		0.02	0.0020	0.019	U	0.24	0.024	0.056
97500965	FW	White Sturgeon	9	D	Columbia River	0.44	0.44	5.1		0.07	0.070	0.81		0.04	0.0040	0.046		0.26	0.026	0.069
97500966	FW	White Sturgeon	9	B	Columbia River	1.05	1.1	14		0.02	0.020	0.27	U	0.05	0.0050	0.068	U	0.05	0.0050	0.068
97500967	FW	White Sturgeon	9	B	Columbia River	1.03	1.0	13		0.05	0.050	0.65		0.03	0.0030	0.039		0.16	0.016	0.039
97500968	FW	White Sturgeon	9	A	Columbia River	1.39	1.4	10		0.01	0.010	0.072	U	0.05	0.0050	0.036		0.28	0.028	0.022
97500969	WB	White Sturgeon	9	A	Columbia River	1.19	1.2	11		0.01	0.010	0.090	U	0.01	0.0010	0.090	U	0.01	0.0010	0.090
97500970	WB	White Sturgeon	9	A	Columbia River	0.28	0.28	4.8		0.01	0.010	0.17	U	0.01	0.0010	0.017	U	0.15	0.015	0.068
97500971	WB	White Sturgeon	9	A	Columbia River	0.87	0.87	11		0.01	0.010	0.13	U	0.03	0.0030	0.039	U	0.43	0.043	0.039
98024000	WB	White Sturgeon	9	I	Columbia River	1.25	1.3	9.8		0.09	0.090	0.70		0.05	0.0050	0.039	U	0.34	0.034	0.039
98024001	WB	White Sturgeon	9	F	Columbia River	0.06	0.060	1.0		0.03	0.030	0.51		0.04	0.0040	0.068	U	0.07	0.0070	0.068
98024002	FW	White Sturgeon	9	I	Columbia River	0.24	0.24	3.3		0.05	0.050	0.69		0.04	0.0040	0.055	U	0.09	0.0090	0.082
98024003	FW	White Sturgeon	9	I	Columbia River	0.23	0.23	3.3		0.05	0.050	0.71		0.02	0.0020	0.029	U	0.14	0.014	0.029

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDD				1,2,3,4,6,7,8-HpCDD				OCDD				2,3,7,8-TCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	ng/kg lipid
96294094	WB	Bridgelip Sucker	48	F	Yakima River	0.06	0.0060	0.23		0.42	0.0042	0.056		0.95	0.000095	0.0013		1.01	0.10	1.4	
96294095	WB	Bridgelip Sucker	48	F	Yakima River	0.05	0.0050	0.15		0.41	0.0041	0.043		0.98	0.000098	0.0010		1.11	0.11	1.2	
96294096	WB	Bridgelip Sucker	48	F	Yakima River	0.05	0.0050	0.20		0.36	0.0036	0.051		0.75	0.000075	0.0011		0.76	0.076	1.1	
97500950	WB	Channel Catfish	8	F	Columbia River	0.13	0.013	0.65		0.59	0.0059	0.045		0.86	0.000086	0.00066		2.54	0.25	1.9	
97500951	WB	Channel Catfish	8	F	Columbia River	0.12	0.012	0.48		0.62	0.0062	0.043		0.57	0.000057	0.00039		1.79	0.18	1.2	
97500952	WB	Channel Catfish	8	F	Columbia River	0.14	0.014	0.36		0.73	0.0073	0.035		0.79	0.000079	0.00038		3.06	0.31	1.5	
97500956	FS	Channel Catfish	8	B	Columbia River	0.17	0.017	0.51		1.24	0.012	0.060		1.25	0.00013	0.00061		3.37	0.34	1.6	
97500957	FS	Channel Catfish	8	C	Columbia River	0.14	0.014	0.48		0.47	0.0047	0.038		0.37	0.000037	0.00030		2.17	0.22	1.8	
97420931	WB	Coho	30		Umatilla River	0.02	0.0020	0.037		0.01	0.00010	0.0037	U	0.01	0.000010	0.000037	U	0.48	0.048	1.8	
97420932	WB	Coho	30		Umatilla River	0.02	0.0020	0.041	U	0.06	0.00060	0.012		0.25	0.000025	0.00051		0.49	0.049	1.0	
97420933	WB	Coho	30		Umatilla River	0.02	0.0020	0.047	U	0.05	0.00050	0.012	U	0.17	0.000017	0.00040		0.36	0.036	0.84	
97450966	FS	Coho	30		Umatilla River	0.03	0.0030	0.19		0.01	0.00010	0.0038	U	0.09	0.000090	0.00035		0.48	0.048	1.9	
97450967	FS	Coho	30		Umatilla River	0.01	0.0010	0.045	U	0.18	0.0018	0.082		0.85	0.000085	0.0039		0.54	0.054	2.5	
97450968	FS	Coho	30		Umatilla River	0.01	0.0010	0.24	U	0.1	0.0010	0.048		0.17	0.000017	0.00081		0.35	0.035	1.7	
97450970	E	Coho	30		Umatilla River	0.01	0.0010	0.096	U	0.14	0.0014	0.017		1.46	0.00015	0.0018		0.59	0.059	0.71	
97450971	E	Coho	30		Umatilla River	0.01	0.0010	0.071	U	0.21	0.0021	0.025		1.32	0.00013	0.0016		0.66	0.066	0.79	
97450972	E	Coho	30		Umatilla River	0.01	0.0010	0.012	U	0.08	0.00080	0.01		2.53	0.00025	0.0032		0.29	0.029	0.36	
97070800	WB	Eulachon	3	B	Columbia River	0.17	0.017	0.21		0.6	0.0060	0.048		1.71	0.00017	0.0014		0.65	0.065	0.52	
97070801	WB	Eulachon	3	B	Columbia River	0.1	0.010	0.17		0.46	0.0046	0.035		1.25	0.00013	0.00094		0.78	0.078	0.59	
97070802	WB	Eulachon	3	B	Columbia River	0.1	0.010	0.077		0.4	0.0040	0.031		1.51	0.00015	0.0012		0.58	0.058	0.45	
97380975	WB	Fall Chinook	56		Klickitat River	0.02	0.0020	0.019	U	0.03	0.00030	0.0029	U	0.03	0.000030	0.00029	U	0.52	0.052	0.51	
97380976	WB	Fall Chinook	56		Klickitat River	0.02	0.0020	0.020	U	0.06	0.00060	0.0060	U	0.06	0.000060	0.00060	U	0.54	0.054	0.54	
97380977	WB	Fall Chinook	56		Klickitat River	0.01	0.0010	0.010	U	0.03	0.00030	0.0031	U	0.03	0.000030	0.00031	U	0.46	0.046	0.47	
97380981	FS	Fall Chinook	56		Klickitat River	0.01	0.0010	0.012	U	0.02	0.00020	0.0024	U	0.11	0.00011	0.00013		0.46	0.046	0.56	
97380982	FS	Fall Chinook	56		Klickitat River	0.02	0.0020	0.019	U	0.02	0.00020	0.0019	U	0.03	0.000030	0.00028	U	0.8	0.080	0.76	
97380983	FS	Fall Chinook	56		Klickitat River	0.02	0.0020	0.029	U	0.05	0.00050	0.0074		0.02	0.000020	0.00029	U	0.44	0.044	0.65	
97380984	WB	Fall Chinook	8	G	Columbia River	0.04	0.0040	0.033	U	0.03	0.00030	0.0025	U	0.05	0.000050	0.00042	U	0.58	0.058	0.48	
97380985	WB	Fall Chinook	8	G	Columbia River	0.04	0.0040	0.036	U	0.03	0.00030	0.0027	U	0.06	0.000060	0.00055	U	0.43	0.043	0.39	
97380986	WB	Fall Chinook	8	G	Columbia River	0.03	0.0030	0.029	U	0.04	0.00040	0.0038	U	0.55	0.000055	0.00052		0.6	0.060	0.57	
97380987	FS	Fall Chinook	8	G	Columbia River	0.01	0.0010	0.0096	U	0.01	0.00010	0.0096	U	0.01	0.000010	0.00096	U	0.65	0.065	0.63	
97380988	FS	Fall Chinook	8	D	Columbia River	0.01	0.0010	0.050	U	0.03	0.00030	0.0030		0.11	0.00011	0.0011		0.79	0.079	0.78	
97380989	FS	Fall Chinook	8	D	Columbia River	0.01	0.0010	0.032	U	0.01	0.00010	0.0011	U	0.02	0.000020	0.00021	U	0.75	0.075	0.80	
97380997	FS	Fall Chinook	8	D	Columbia River	0.02	0.0020	0.021	U	0.04	0.00040	0.0041		0.12	0.000012	0.00012		0.82	0.082	0.85	
97380998	E	Fall Chinook	8	D	Columbia River	0.01	0.0010	0.067	U	0.05	0.00050	0.0033		0.28	0.000028	0.00019		0.43	0.043	0.29	
97400925	WB	Fall Chinook	14		Columbia River	0.02	0.0020	0.023	U	0.02	0.00020	0.0023	U	0.05	0.000050	0.00057	U	1.05	0.11	1.2	
97400926	WB	Fall Chinook	14		Columbia River	0.03	0.0030	0.041	U	0.06	0.00060	0.0081		0.02	0.000020	0.00027	U	1	0.10	1.4	
97400927	WB	Fall Chinook	14		Columbia River	0.01	0.0010	0.013	U	0.05	0.00050	0.0066		0.03	0.000030	0.00039	U	0.84	0.084	1.1	
97400928	FS	Fall Chinook	14		Columbia River	0.03	0.0030	0.043	U	0.07	0.00070	0.01		0.15	0.000015	0.00021		0.85	0.085	1.2	
97400929	FS	Fall Chinook	14		Columbia River	0.05	0.0050	0.091	U	0.04	0.00040	0.0073		0.03	0.000030	0.00055	U	0.93	0.093	1.7	
97400930	FS	Fall Chinook	14		Columbia River	0.02	0.0020	0.029	U	0.03	0.00030	0.0043		0.01	0.000010	0.00014	U	1.38	0.14	2.0	
97420925	WB	Fall Chinook	30		Umatilla River	0.02	0.0020	0.033	U	0.1	0.0010	0.017		0.02	0.000020	0.00033	U	1.35	0.14	2.3	
97420926	WB	Fall Chinook	30		Umatilla River	0.01	0.0010	0.11	U	0.14	0.0014	0.025		0.02	0.000020	0.00036	U	0.81	0.081	1.5	
97420927	WB	Fall Chinook	30		Umatilla River	0.01	0.0010	0.017	U	0.01	0.00010	0.0017	U	0.01	0.000010	0.00017	U	0.52	0.052	0.90	
97420928	FS	Fall Chinook	30		Umatilla River	0.03	0.0030	0.028		0.06	0.00060	0.017		0.01	0.000010	0.00028	U	0.54	0.054	1.5	
97420929	FS	Fall Chinook	30		Umatilla River	0.01	0.0010	0.029	U	0.01	0.00010	0.0029	U	0.15	0.000015	0.00044		0.76	0.076	2.2	
97420930	FS	Fall Chinook	30		Umatilla River	0.02	0.0020	0.083		0.04	0.00040	0.017		0.36	0.000036	0.0015		0.03	0.0030	0.13	U
97420934	WB	Fall Chinook	48	F	Yakima River	0.02	0.0020	0.031	U	0.11	0.0011	0.017		0.04	0.000040	0.00062	U	1.09	0.11	1.7	
97420935	WB	Fall Chinook	48	F	Yakima River	0.04	0.0040	0.11	U	0.03	0.00030	0.0053	U	0.25	0.000025	0.00044		0.72	0.072	1.3	
97420936	WB	Fall Chinook	48	F	Yakima River	0.02	0.0020	0.093	U	0.12	0.0012	0.016		0.64	0.000064	0.00085		0.83	0.083	1.1	
97420937	FS	Fall Chinook	48	F	Yakima River	0.07	0.0070	0.20	U	0.11	0.0011	0.031	U	0.21	0.000021	0.00060	U	0.61	0.061	1.7	
97420938	FS	Fall Chinook	48	F	Yakima River	0.03	0.0030	0.097	U	0.02	0.00020	0.0065	U	0.42	0.000042	0.0014		0.49	0.049	1.6	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDD				1,2,3,4,6,7,8-HpCDD				OCDD				2,3,7,8-TCDF			
						TEQ				TEQ				TEQ				TEQ			
						Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	
97420939	FS	Fall Chinook	48	F	Yakima River	0.06	0.0060	0.12	U	0.13	0.0013	0.025		0.06	0.000060	0.00012	U	0.65	0.065	1.3	
97420940	FS	Fall Chinook	48	F	Yakima River	0.04	0.0040	0.11	U	0.1	0.0010	0.029		0.27	0.000027	0.00077		0.73	0.073	2.1	
96284795	WB	Largescale Sucker	30	A	Umatilla River	0.05	0.0050	0.029		0.2	0.0020	0.057		0.5	0.000050	0.0014		0.52	0.052	1.5	
96284796	WB	Largescale Sucker	30	A	Umatilla River	0.03	0.0030	0.14		0.15	0.0015	0.043		0.36	0.000036	0.0010		0.28	0.028	0.80	
96284797	WB	Largescale Sucker	30	A	Umatilla River	0.05	0.0050	0.16		0.01	0.00010	0.0023		0.63	0.000063	0.0015		0.46	0.046	1.1	
96284798	FS	Largescale Sucker	30	A	Umatilla River	0.01	0.0010	0.083	U	0.11	0.0011	0.092		0.16	0.000016	0.0013		0.19	0.019	1.6	
96294091	WB	Largescale Sucker	48	F	Yakima River	0.06	0.0060	0.31		0.43	0.0043	0.083		0.93	0.000093	0.0018		0.7	0.070	1.4	
96294092	WB	Largescale Sucker	48	F	Yakima River	0.04	0.0040	0.37		0.3	0.0030	0.086		0.76	0.000076	0.0022		0.41	0.041	1.2	
96294093	WB	Largescale Sucker	48	F	Yakima River	0.07	0.0070	0.54		0.46	0.0046	0.12		0.94	0.000094	0.0024		0.71	0.071	1.8	
96374700	FS	Largescale Sucker	30	A	Umatilla River	0.08	0.0080	0.92		0.2	0.0020	0.17		0.31	0.000031	0.0026		0.27	0.027	2.3	
96374701	FS	Largescale Sucker	30	A	Umatilla River	0.01	0.0010	0.43	U	0.12	0.0012	0.086		0.2	0.000020	0.0014		0.15	0.015	1.1	
96374702	FS	Largescale Sucker	30	A	Umatilla River	0.05	0.0050	0.062		0.15	0.0015	0.094		0.22	0.000022	0.0014		0.58	0.058	3.6	
96374793	WB	Largescale Sucker	49		Yakima River	0.01	0.0010	0.15	U	0.18	0.0018	0.038		0.47	0.000047	0.0010		0.18	0.018	0.38	
96374794	WB	Largescale Sucker	49		Yakima River	0.03	0.0030	0.13		0.24	0.0024	0.030		0.46	0.000046	0.00058		0.39	0.039	0.49	
96374795	WB	Largescale Sucker	49		Yakima River	0.03	0.0030	0.016		0.18	0.0018	0.029		0.31	0.000031	0.00049		0.26	0.026	0.41	
96374796	FS	Largescale Sucker	49		Yakima River	0.05	0.0050	0.28		0.15	0.0015	0.060		0.23	0.000023	0.00092		0.09	0.0090	0.36	
96374797	FS	Largescale Sucker	49		Yakima River	0.02	0.0020	0.17		0.01	0.00010	0.0033	U	0.2	0.000020	0.00067		0.1	0.010	0.33	
96374798	FS	Largescale Sucker	49		Yakima River	0.02	0.0020	0.61	U	0.01	0.00010	0.0043	U	0.54	0.000054	0.0023		0.11	0.011	0.48	
97080800	WB	Largescale Sucker	98	D	Deschutes River	0.03	0.0030	0.17	U	0.02	0.00020	0.0025	U	0.04	0.000040	0.00049	U	0.42	0.042	0.52	
97080801	WB	Largescale Sucker	98	C	Deschutes River	0.05	0.0050	0.14		0.24	0.0024	0.034		0.35	0.000035	0.00050		0.46	0.046	0.66	
97080802	WB	Largescale Sucker	98	B	Deschutes River	0.05	0.0050	0.029		0.21	0.0021	0.020		0.04	0.000040	0.00038	U	0.52	0.052	0.50	
97080824	FS	Largescale Sucker	98	E	Deschutes River	0.11	0.011	0.34	U	0.11	0.0011	0.034	U	0.19	0.000019	0.00059	U	0.16	0.016	0.50	
97080825	FS	Largescale Sucker	98	C	Deschutes River	0.08	0.0080	0.23	U	0.14	0.0014	0.040		0.15	0.000015	0.00043	U	0.18	0.018	0.51	
97080990	FS	Largescale Sucker	98	A	Deschutes River	0.07	0.0070	0.21		0.15	0.0015	0.034		0.01	0.000010	0.00023		0.34	0.034	0.77	
97304975	WB	Largescale Sucker	9	E	Columbia River	0.02	0.0020	0.10	U	0.11	0.0011	0.028		0.45	0.000045	0.0012		2.88	0.29	7.4	
97304976	WB	Largescale Sucker	9	E	Columbia River	0.01	0.0010	0.031	U	0.12	0.0012	0.037		0.64	0.000064	0.0020		1.84	0.18	5.8	
97304977	WB	Largescale Sucker	9	F	Columbia River	0.01	0.0010	0.17	U	0.13	0.0013	0.054		0.54	0.000054	0.0022		1.37	0.14	5.7	
97304978	FS	Largescale Sucker	9	F	Columbia River	0.02	0.0020	0.11	U	0.01	0.00010	0.0053	U	1.96	0.00020	0.010		1.45	0.15	7.6	
97304979	FS	Largescale Sucker	9	H	Columbia River	0.05	0.0050	0.11		0.12	0.0012	0.063		0.37	0.000037	0.0019		1.02	0.10	5.4	
97304980	FS	Largescale Sucker	9	H	Columbia River	0.03	0.0030	0.21		0.05	0.00050	0.036		0.23	0.000023	0.0016		1.17	0.12	8.4	
97500953	WB	Largescale Sucker	8	F	Columbia River	0.02	0.0020	0.031	U	0.21	0.0021	0.033		0.84	0.000084	0.0013		2.8	0.28	4.4	
97500954	WB	Largescale Sucker	8	I	Columbia River	0.03	0.0030	0.031		0.2	0.0020	0.031		1.02	0.00010	0.0016		3.62	0.36	5.6	
98164075	WB	Largescale Sucker	48	H	Yakima River	0.01	0.0010	0.016	U	0.3	0.0030	0.049		0.63	0.000063	0.0010		0.55	0.055	0.90	
98164076	WB	Largescale Sucker	48	H	Yakima River	0.03	0.0030	0.21		0.31	0.0031	0.065		0.95	0.000095	0.0020		0.5	0.050	1.0	
98164077	WB	Largescale Sucker	48	J	Yakima River	0.01	0.0010	0.024	U	0.21	0.0021	0.050		0.5	0.000050	0.0012		0.29	0.029	0.69	
98164078	FS	Largescale Sucker	48	J	Yakima River	0.04	0.0040	0.29		0.14	0.0014	0.050		0.26	0.000026	0.00093		0.38	0.038	1.4	
98164079	FS	Largescale Sucker	48	I	Yakima River	0.03	0.0030	0.14	U	0.05	0.00050	0.024		0.13	0.000013	0.00062		0.12	0.012	0.57	
98164080	FS	Largescale Sucker	48	I	Yakima River	0.01	0.0010	0.17	U	0.01	0.00010	0.0029	U	0.04	0.000040	0.00011	U	0.37	0.037	1.1	
98184125	WB	Largescale Sucker	13	E	Snake River	0.02	0.0020	0.040		0.03	0.00030	0.0060	U	1.33	0.00013	0.0027		0.28	0.028	0.56	
98184126	WB	Largescale Sucker	13	E	Snake River	0.03	0.0030	0.037		0.22	0.0022	0.081		1.32	0.00013	0.0049		0.08	0.0080	0.30	
98184127	WB	Largescale Sucker	13	C	Snake River	0.02	0.0020	0.028		0.35	0.0035	0.097		2.58	0.00026	0.0072		0.27	0.027	0.75	
98184128	FS	Largescale Sucker	13	C	Snake River	0.02	0.0020	0.20		0.1	0.0010	0.050		0.15	0.000015	0.00075		0.01	0.0010	0.050	U
98184129	FS	Largescale Sucker	13	D	Snake River	0.02	0.0020	0.059		0.07	0.00070	0.041		0.12	0.000012	0.00071		0.11	0.011	0.65	
98184130	FS	Largescale Sucker	13	D	Snake River	0.01	0.0010	0.14	U	0.01	0.00010	0.0071	U	0.01	0.000010	0.00071	U	0.11	0.011	0.79	
96284904	WB	Mountain Whitefish	101		Umatilla River	0.06	0.0060	0.19		0.28	0.0028	0.029		0.27	0.000027	0.00028		0.33	0.033	0.34	
96284905	WB	Mountain Whitefish	101	A	Umatilla River	0.05	0.0050	0.12		0.26	0.0026	0.023		0.27	0.000027	0.00023		0.23	0.023	0.20	
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	0.05	0.0050	0.17		0.31	0.0031	0.029		0.35	0.000035	0.00032		0.32	0.032	0.30	
96284907	FS	Mountain Whitefish	101	A	Umatilla River	0.05	0.0050	0.22		0.29	0.0029	0.048		0.28	0.000028	0.00047		0.19	0.019	0.32	
96284908	FS	Mountain Whitefish	101	A	Umatilla River	0.03	0.0030	0.18		0.2	0.0020	0.036		0.21	0.000021	0.00038		0.14	0.014	0.25	
96284909	FS	Mountain Whitefish	101		Umatilla River	0.03	0.0030	0.16		0.19	0.0019	0.031		0.23	0.000023	0.00037		0.14	0.014	0.23	
97080804	WB	Mountain Whitefish	98	D	Deschutes River	0.08	0.0080	0.51		0.41	0.0041	0.095		0.49	0.000049	0.0011		1.05	0.11	2.4	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDD				1,2,3,4,6,7,8-HpCDD				OCDD				2,3,7,8-TCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	ng/kg lipid
97080805	WB	Mountain Whitefish	98	C	Deschutes River	0.09	0.0090	0.60		0.41	0.0041	0.091		0.57	0.000057	0.0013		1.24	0.12	2.8	
97080806	WB	Mountain Whitefish	98	B	Deschutes River	0.07	0.0070	0.43	U	0.35	0.0035	0.069		0.42	0.000042	0.00082		0.95	0.095	1.9	
97080807	FS	Mountain Whitefish	98	A	Deschutes River	0.1	0.010	0.83		0.28	0.0028	0.12		0.38	0.000038	0.0016		0.68	0.068	2.8	
97080808	FS	Mountain Whitefish	98	A	Deschutes River	0.12	0.012	0.77		0.27	0.0027	0.10		0.47	0.000047	0.0018		0.7	0.070	2.7	
97080809	FS	Mountain Whitefish	98	B	Deschutes River	0.06	0.0060	1.3		0.23	0.0023	0.19		0.24	0.000024	0.0020		0.65	0.065	5.4	
97080810	FS	Mountain Whitefish	98	A	Deschutes River	0.09	0.0090	0.52		0.28	0.0028	0.097		0.52	0.000052	0.0018		0.51	0.051	1.8	
97470990	WB	Mountain Whitefish	9	Q	Columbia River	0.11	0.011	0.012		0.3	0.0030	0.037		0.01	0.000010	0.000012	U	11.7	1.2	14	
97470991	WB	Mountain Whitefish	9	Q	Columbia River	0.05	0.0050	0.053	U	0.33	0.0033	0.035		0.76	0.000076	0.00080		9	0.90	9.5	
97470992	WB	Mountain Whitefish	9	P	Columbia River	0.02	0.0020	0.14	U	0.13	0.0013	0.016		0.23	0.000023	0.00028		11.1	1.1	14	
97470993	FS	Mountain Whitefish	9	O	Columbia River	0.06	0.0060	0.17		0.01	0.00010	0.0014	U	0.19	0.000019	0.00028		13.2	1.3	19	
97470994	FS	Mountain Whitefish	9	O	Columbia River	0.01	0.0010	0.16	U	0.15	0.0015	0.019		0.28	0.000028	0.00036		13.1	1.3	17	
97470995	FS	Mountain Whitefish	9	N	Columbia River	0.06	0.0060	0.18		0.15	0.0015	0.020		0.21	0.000021	0.00028		13.8	1.4	19	
98124160	WB	Mountain Whitefish	48	F	Yakima River	0.06	0.0060	0.032		0.38	0.0038	0.040		0.61	0.000061	0.00065		5.52	0.55	5.9	
98124161	WB	Mountain Whitefish	48	F	Yakima River	0.09	0.0090	0.36		0.35	0.0035	0.043		0.47	0.000047	0.00058		6.18	0.62	7.6	
98124162	WB	Mountain Whitefish	48	F	Yakima River	0.01	0.0010	0.19	U	0.25	0.0025	0.024		0.01	0.000010	0.000096	U	5.12	0.51	4.9	
98124165	FS	Mountain Whitefish	48	F	Yakima River	0.07	0.0070	0.13	U	0.15	0.0015	0.018		0.09	0.000090	0.00011	U	3.26	0.33	3.9	
98124166	FS	Mountain Whitefish	48	F	Yakima River	0.03	0.0030	0.22	U	0.38	0.0038	0.049		1.6	0.00016	0.0021		3.91	0.39	5.1	
98124167	FS	Mountain Whitefish	48	F	Yakima River	0.01	0.0010	0.26	U	0.29	0.0029	0.034		0.33	0.000033	0.00038		4.28	0.43	5.0	
96254770	WB	Pacific lamprey	21		Willamette River	0.01	0.0010	0.079	U	0.22	0.0022	0.010		0.3	0.000030	0.00014		1.58	0.16	0.74	
96254771	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.092		0.25	0.0025	0.013		0.34	0.000034	0.00017		1.65	0.17	0.84	
96254772	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.090		0.24	0.0024	0.013		0.4	0.000040	0.00021		1.66	0.17	0.88	
97220910	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.11		0.25	0.0025	0.017		0.32	0.000032	0.00022		1.1	0.11	0.76	
97220911	WB	Pacific lamprey	21		Willamette River	0.03	0.0030	0.011		0.22	0.0022	0.012		0.02	0.000020	0.000011	U	1.52	0.15	0.85	
97220912	WB	Pacific lamprey	21		Willamette River	0.03	0.0030	0.016	U	0.21	0.0021	0.011		0.38	0.000038	0.00021		1.41	0.14	0.77	
97220915	FS	Pacific lamprey	21		Willamette River	0.07	0.0070	0.11		0.25	0.0025	0.013		0.3	0.000030	0.00015		1.36	0.14	0.69	
97220916	FS	Pacific lamprey	21		Willamette River	0.05	0.0050	0.086		0.28	0.0028	0.015		0.38	0.000038	0.00020		1.17	0.12	0.63	
97220917	FS	Pacific lamprey	21		Willamette River	0.04	0.0040	0.078	U	0.1	0.0010	0.0046		0.43	0.000043	0.00020		1.71	0.17	0.78	
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	0.02	0.0020	0.12	U	0.25	0.0025	0.014		0.53	0.000053	0.00030		2.89	0.29	1.7	
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	0.07	0.0070	0.11		0.28	0.0028	0.015		0.99	0.000099	0.00053		3.18	0.32	1.7	
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	0.02	0.0020	0.13	U	0.24	0.0024	0.013		0.63	0.000063	0.00033		2.99	0.30	1.6	
96284845	WB	Rainbow Trout	101		Umatilla River	0.04	0.0040	0.15		0.17	0.0017	0.035		0.2	0.000020	0.00042		0.06	0.0060	0.13	
96284846	WB	Rainbow Trout	101	B	Thomas Creek	0.04	0.0040	0.18		0.15	0.0015	0.033		0.18	0.000018	0.00040		0.06	0.0060	0.13	
96284990	WB	Rainbow Trout	101	C	Meacham Creek	0.05	0.0050	0.43		0.21	0.0021	0.075		0.34	0.000034	0.0012		0.12	0.012	0.43	
96284991	WB	Rainbow Trout	101	C	Meacham Creek	0.06	0.0060	0.39		0.27	0.0027	0.082		0.43	0.000043	0.0013		0.14	0.014	0.42	
96374730	FS	Rainbow Trout	49		Yakima River	0.01	0.0010	0.29	U	0.16	0.0016	0.047		0.21	0.000021	0.00062		0.14	0.014	0.41	
96374731	FS	Rainbow Trout	49		Yakima River	0.32	0.032	0.062		0.44	0.0044	0.14		1.4	0.00014	0.0044		0.17	0.017	0.53	
96374732	FS	Rainbow Trout	49		Yakima River	0.04	0.0040	0.32		0.19	0.0019	0.051		0.19	0.000019	0.00051		0.15	0.015	0.41	
96374765	WB	Rainbow Trout	49		Yakima River	0.06	0.0060	0.31		0.25	0.0025	0.037		0.36	0.000036	0.00053		0.36	0.036	0.53	
96374766	WB	Rainbow Trout	49		Yakima River	0.05	0.0050	0.29		0.28	0.0028	0.048		0.48	0.000048	0.00083		0.27	0.027	0.47	
96374767	WB	Rainbow Trout	49		Yakima River	0.01	0.0010	0.017	U	0.24	0.0024	0.041		0.38	0.000038	0.00066		0.24	0.024	0.41	
97080803	WB	Rainbow Trout	98	A	Deschutes River	0.1	0.010	0.54		0.31	0.0031	0.065		0.52	0.000052	0.0011		0.42	0.042	0.88	
97080821	WB	Rainbow Trout	98	E	Deschutes River	0.1	0.010	0.23	U	0.32	0.0032	0.074		0.42	0.000042	0.00098		0.33	0.033	0.77	
97080822	WB	Rainbow Trout	98	D	Deschutes River	0.07	0.0070	0.48		0.22	0.0022	0.052		0.34	0.000034	0.00081		0.48	0.048	1.1	
97080823	FS	Rainbow Trout	98	B	Deschutes River	0.06	0.0060	0.16		0.19	0.0019	0.059		0.09	0.000090	0.00028	U	0.24	0.024	0.75	
97170950	FS	Rainbow Trout	98	E	Deschutes River	0.04	0.0040	0.49		0.3	0.0030	0.086		0.69	0.000069	0.0020		0.27	0.027	0.77	
97170951	FS	Rainbow Trout	98	D	Deschutes River	0.07	0.0070	0.68		0.28	0.0028	0.090		0.38	0.000038	0.0012		0.28	0.028	0.90	
97170952	FS	Rainbow Trout	98	C	Deschutes River	0.05	0.0050	0.50		0.19	0.0019	0.059		0.23	0.000023	0.00072		0.26	0.026	0.81	
97330975	WB	Rainbow Trout	56	B	Klickitat River	0.03	0.0030	0.11	U	0.16	0.0016	0.025		0.71	0.000071	0.0011		0.28	0.028	0.44	
97330976	WB	Rainbow Trout	56	F	Klickitat River	0.05	0.0050	0.027		0.02	0.00020	0.0027	U	2.97	0.00030	0.0040		0.04	0.0040	0.054	U
97200840	WB	Spring Chinook	30		Umatilla River	0.04	0.0040	0.047	U	0.17	0.0017	0.0099		0.22	0.000022	0.00013		0.73	0.073	0.43	
97200841	WB	Spring Chinook	30		Umatilla River	0.05	0.0050	0.026		0.08	0.00080	0.0052	U	0.3	0.000030	0.00020		0.61	0.061	0.40	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDD				1,2,3,4,6,7,8-HpCDD				OCDD				2,3,7,8-TCDF			
						TEQ				TEQ				TEQ				TEQ			
						Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	
97200842	WB	Spring Chinook	30		Umatilla River	0.05	0.0050	0.026		0.18	0.0018	0.012		0.29	0.000029	0.00019		0.68	0.068	0.44	
97200843	FS	Spring Chinook	30		Umatilla River	0.04	0.0040	0.051		0.13	0.0013	0.0082		0.02	0.000020	0.000013	U	0.62	0.062	0.39	
97200844	FS	Spring Chinook	30		Umatilla River	0.06	0.0060	0.015		0.57	0.0057	0.043		2.68	0.00027	0.0020		0.52	0.052	0.39	
97200845	FS	Spring Chinook	30		Umatilla River	0.04	0.0040	0.046	U	0.14	0.0014	0.0092		0.04	0.000040	0.000026	U	0.66	0.066	0.43	
97200846	E	Spring Chinook	30		Umatilla River	0.05	0.0050	0.049	U	0.13	0.0013	0.0071	U	0.39	0.000039	0.00021		0.46	0.046	0.25	
97200847	E	Spring Chinook	30		Umatilla River	0.03	0.0030	0.011		0.14	0.0014	0.0074		0.39	0.000039	0.00021		0.36	0.036	0.19	
97200848	E	Spring Chinook	30		Umatilla River	0.03	0.0030	0.033		0.13	0.0013	0.0071		0.24	0.000024	0.00013		0.46	0.046	0.25	
97220900	WB	Spring Chinook	48	G	Yakima River	0.04	0.0040	0.054		0.16	0.0016	0.011		0.26	0.000026	0.00018		0.57	0.057	0.39	
97220901	WB	Spring Chinook	48	G	Yakima River	0.05	0.0050	0.19		0.43	0.0043	0.032		0.95	0.000095	0.00070		1.04	0.10	0.77	
97220902	WB	Spring Chinook	48	G	Yakima River	0.03	0.0030	0.047	U	0.09	0.00090	0.0060		0.16	0.000016	0.00011		0.7	0.070	0.47	
97220903	FS	Spring Chinook	48	G	Yakima River	0.03	0.0030	0.050	U	0.1	0.0010	0.0084		0.14	0.000014	0.00012		0.68	0.068	0.57	
97220904	FS	Spring Chinook	48	G	Yakima River	0.03	0.0030	0.056	U	0.08	0.00080	0.0074		0.1 U	0.000010	0.000093		0.64	0.064	0.59	
97220905	FS	Spring Chinook	48	G	Yakima River	0.04	0.0040	0.039		0.04	0.00040	0.0026	U	0.22	0.000022	0.00014		0.72	0.072	0.47	
97250800	WB	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.080	U	0.1	0.0010	0.0080		0.01	0.000010	0.000080	U	0.62	0.062	0.50	
97250801	WB	Spring Chinook	94		Looking Glass Creek	0.05	0.0050	0.042		0.11	0.0011	0.0077		0.29	0.000029	0.00020		0.75	0.075	0.53	
97250802	WB	Spring Chinook	94		Looking Glass Creek	0.05	0.0050	0.052		0.17	0.0017	0.013		0.01	0.000010	0.000075	U	0.8	0.080	0.60	
97250803	FS	Spring Chinook	94		Looking Glass Creek	0.03	0.0030	0.0093		0.1	0.0010	0.0093		0.18	0.000018	0.00017		0.7	0.070	0.65	
97250804	FS	Spring Chinook	94		Looking Glass Creek	0.04	0.0040	0.064		0.09	0.00090	0.0083		0.24	0.000024	0.00022		0.67	0.067	0.62	
97250805	FS	Spring Chinook	94		Looking Glass Creek	0.04	0.0040	0.055		0.11	0.0011	0.0087		0.3	0.000030	0.00024		0.67	0.067	0.53	
97250806	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.066	U	0.02	0.00020	0.0017	U	0.03	0.000030	0.000025	U	0.6	0.060	0.50	
97250807	E	Spring Chinook	94		Looking Glass Creek	0.06	0.0060	0.032	U	0.11	0.0011	0.0059		0.4	0.000040	0.00021		0.57	0.057	0.31	
97250808	E	Spring Chinook	94		Looking Glass Creek	0.04	0.0040	0.020		0.09	0.00090	0.0046		0.57	0.000057	0.00029		0.65	0.065	0.33	
97250809	E	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.055	U	0.01	0.0010	0.0055	U	0.31	0.000031	0.00017		0.62	0.062	0.34	
97250811	WB	Spring Chinook	51		Icicle Creek	0.06	0.0060	0.054		0.2	0.0020	0.018		0.47	0.000047	0.00042		0.76	0.076	0.68	
97250812	WB	Spring Chinook	51		Icicle Creek	0.12	0.012	0.085		0.19	0.0019	0.016		0.43	0.000043	0.00036		0.85	0.085	0.72	
97250813	WB	Spring Chinook	51		Icicle Creek	0.08	0.0080	0.099		0.16	0.0016	0.016		0.34	0.000034	0.00034		0.79	0.079	0.78	
97250814	FS	Spring Chinook	51		Icicle Creek	0.01	0.0010	0.13	U	0.16	0.0016	0.017		0.44	0.000044	0.00048		0.68	0.068	0.74	
97250815	FS	Spring Chinook	51		Icicle Creek	0.01	0.0010	0.091	U	0.08	0.00080	0.0091		0.12	0.000012	0.00014		0.65	0.065	0.74	
97250816	FS	Spring Chinook	51		Icicle Creek	0.06	0.0060	0.11		0.11	0.0011	0.012		0.03	0.000030	0.000034	U	0.69	0.069	0.78	
97250820	WB	Spring Chinook	63		Wind River	0.01	0.0010	0.098	U	0.1	0.0010	0.0098		0.21	0.000021	0.00021		0.59	0.059	0.58	
97250821	WB	Spring Chinook	63		Wind River	0.03	0.0030	0.049		0.08	0.00080	0.0065		0.25	0.000025	0.00020		0.73	0.073	0.59	
97250822	WB	Spring Chinook	63		Wind River	0.04	0.0040	0.085		0.12	0.0012	0.010		0.3	0.000030	0.00026		0.71	0.071	0.61	
97250823	FS	Spring Chinook	63		Wind River	0.02	0.0020	0.14	U	0.02	0.00020	0.0028	U	0.37	0.000037	0.00051		0.59	0.059	0.82	
97250824	FS	Spring Chinook	63		Wind River	0.04	0.0040	0.074		0.07	0.00070	0.0074		0.25	0.000025	0.00026		0.68	0.068	0.72	
97250825	FS	Spring Chinook	63		Wind River	0.04	0.0040	0.13	U	0.06	0.00060	0.0062	U	0.41	0.000041	0.00043		0.57	0.057	0.59	
97260975	WB	Spring Chinook	62		Little White Salmon River	0.04	0.0040	0.061	U	0.06	0.00060	0.0046	U	0.27	0.000027	0.00021		0.59	0.059	0.45	
97260976	WB	Spring Chinook	62		Little White Salmon River	0.03	0.0030	0.028	U	0.15	0.0015	0.014		0.25	0.000025	0.00023		0.62	0.062	0.57	
97260977	WB	Spring Chinook	62		Little White Salmon River	0.06	0.0060	0.064		0.1	0.0010	0.0091		0.3	0.000030	0.00027		0.69	0.069	0.63	
97260978	FS	Spring Chinook	62		Little White Salmon River	0.03	0.0030	0.086		0.08	0.00080	0.0086		0.02	0.000020	0.000022	U	0.6	0.060	0.65	
97260979	FS	Spring Chinook	62		Little White Salmon River	0.01	0.0010	0.055	U	0.07	0.00070	0.0064		0.02	0.000020	0.00018	U	0.61	0.061	0.56	
97260980	FS	Spring Chinook	62		Little White Salmon River	0.04	0.0040	0.010		0.02	0.00020	0.0021	U	0.1	0.000010	0.00010		0.53	0.053	0.55	
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.07	0.0070	0.13		0.19	0.0019	0.027		0.42	0.000042	0.00059		0.88	0.088	1.2	
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.0040	0.13		0.03	0.00030	0.0042	U	0.34	0.000034	0.00048		0.74	0.074	1.0	
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.06	0.0060	0.11		0.05	0.00050	0.0060	U	0.01	0.000010	0.00012	U	0.69	0.069	0.82	
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.0040	0.16		0.16	0.0016	0.032		0.07	0.000070	0.00014	U	0.52	0.052	1.0	
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.0040	0.11		0.09	0.00090	0.016		0.23	0.000023	0.00042	U	0.51	0.051	0.93	
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.01	0.0010	0.11	U	0.11	0.0011	0.015		0.04	0.000040	0.00056	U	0.72	0.072	1.0	
97320852	WB	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.14	U	0.01	0.00010	0.0024	U	0.29	0.000029	0.00069		0.74	0.074	1.8	
97320853	WB	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.20	U	0.14	0.0014	0.029		0.32	0.000032	0.00065		1.05	0.11	2.1	
97320854	WB	Spring Chinook	56	A	Klickitat River	0.02	0.0020	0.28	U	0.2	0.0020	0.043		0.69	0.000069	0.0015		0.84	0.084	1.8	
97320855	FS	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.41	U	0.19	0.0019	0.086		0.5	0.000050	0.0023		0.5	0.050	2.3	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDD				1,2,3,4,6,7,8-HpCDD				OCDD				2,3,7,8-TCDF			
						TEQ				TEQ				TEQ				TEQ			
						Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	
97320856	FS	Spring Chinook	56	A	Klickitat River	0.06	0.0060	0.033		0.18	0.0018	0.060		0.53	0.000053	0.0018		0.74	0.074	2.5	
97320857	FS	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.031	U	0.15	0.0015	0.047		0.42	0.000042	0.0013		0.44	0.044	1.4	
97090980	FS	Steelhead	96		Clearwater River	0.05	0.0050	0.21	U	0.23	0.0023	0.052		0.85	0.000085	0.0019		0.56	0.056	1.3	
97090981	FS	Steelhead	96		Clearwater River	0.07	0.0070	0.18	U	0.05	0.00050	0.013	U	1.02	0.00010	0.0027		0.44	0.044	1.2	
97090982	FS	Steelhead	96		Clearwater River	0.09	0.0090	0.24	U	0.17	0.0017	0.045		0.39	0.000039	0.0010		0.39	0.039	1.0	
97090983	WB	Steelhead	96		Clearwater River	0.06	0.0060	0.19		0.02	0.0020	0.0035	U	0.67	0.000067	0.0012		0.52	0.052	0.91	
97090984	WB	Steelhead	96		Clearwater River	0.02	0.0020	0.034	U	0.18	0.0018	0.031		0.25	0.000025	0.00042		0.57	0.057	0.97	
97090985	WB	Steelhead	96		Clearwater River	0.02	0.0020	0.26	U	0.29	0.0029	0.051		0.73	0.000073	0.0013		0.48	0.048	0.84	
97090986	FS	Steelhead	96		Clearwater River	0.05	0.0050	0.24		0.25	0.0025	0.050		0.53	0.000053	0.0011		0.74	0.074	1.5	
97140810	WB	Steelhead	93	A	Snake River	0.01	0.0010	0.18	U	0.16	0.0016	0.029		0.17	0.000017	0.00031		0.58	0.058	1.1	
97140811	WB	Steelhead	93	A	Snake River	0.02	0.0020	0.15	U	0.23	0.0023	0.042		0.35	0.000035	0.00064		0.52	0.052	0.95	
97140812	WB	Steelhead	93	A	Snake River	0.01	0.0010	0.027	U	0.16	0.0016	0.043		0.16	0.000016	0.00043		0.53	0.053	1.4	
97140815	FS	Steelhead	93	A	Snake River	0.02	0.0020	0.053	U	0.19	0.0019	0.050		0.36	0.000036	0.00095		0.39	0.039	1.0	
97140816	FS	Steelhead	93	A	Snake River	0.03	0.0030	0.25		0.12	0.0012	0.037		0.16	0.000016	0.00050		0.44	0.044	1.4	
97140817	FS	Steelhead	93	A	Snake River	0.01	0.0010	0.027	U	0.28	0.0028	0.076		0.19	0.000019	0.00051		0.37	0.037	1.0	
97380978	WB	Steelhead	56		Klickitat River	0.01	0.0010	0.041	U	0.03	0.00030	0.0020	U	0.03	0.000030	0.00020	U	0.56	0.056	0.38	
97380979	WB	Steelhead	56		Klickitat River	0.04	0.0040	0.029	U	0.07	0.00070	0.0051	U	2.56	0.00026	0.0019		0.36	0.036	0.26	
97380980	WB	Steelhead	56		Klickitat River	0.01	0.0010	0.064	U	0.11	0.0011	0.070		0.02	0.000020	0.000013	U	0.32	0.032	0.20	
97380990	WB	Steelhead	8	D	Columbia River	0.02	0.0020	0.016	U	0.03	0.00030	0.0024	U	0.07	0.000070	0.000055	U	0.32	0.032	0.25	
97380991	WB	Steelhead	8	E	Columbia River	0.03	0.0030	0.019		0.05	0.00050	0.0031	U	0.08	0.000080	0.000050		0.34	0.034	0.21	
97380992	WB	Steelhead	8	F	Columbia River	0.02	0.0020	0.015	U	0.04	0.00040	0.0029	U	0.05	0.000050	0.000037	U	0.25	0.025	0.18	
97380993	FS	Steelhead	8	E	Columbia River	0.02	0.0020	0.022	U	0.04	0.00040	0.0043	U	0.21	0.000021	0.00023		0.31	0.031	0.33	
97380994	FS	Steelhead	8	H	Columbia River	0.03	0.0030	0.032	U	0.03	0.00030	0.0032	U	0.11	0.000011	0.00012		0.27	0.027	0.29	
97380995	FS	Steelhead	8	H	Columbia River	0.01	0.0010	0.074	U	0.07	0.00070	0.010		0.24	0.000024	0.00035		0.3	0.030	0.44	
97380999	E	Steelhead	8	E	Columbia River	0.02	0.0020	0.017	U	0.07	0.00070	0.0060		0.38	0.000038	0.00033		0.22	0.022	0.19	
97390800	FS	Steelhead	56		Klickitat River	0.02	0.0020	0.025	U	0.02	0.00020	0.0025	U	0.05	0.000050	0.000062	U	0.42	0.042	0.52	
97390801	FS	Steelhead	56		Klickitat River	0.02	0.0020	0.020		0.03	0.00030	0.0031	U	0.23	0.000023	0.00023		0.37	0.037	0.38	
97390802	FS	Steelhead	56		Klickitat River	0.03	0.0030	0.029	U	0.06	0.00060	0.0059		0.06	0.000060	0.000059	U	0.35	0.035	0.34	
98064090	FS	Steelhead	8	D	Columbia River	0.01	0.0010	0.023	U	0.01	0.00010	0.0023	U	0.02	0.000020	0.000045	U	0.35	0.035	0.80	
98064091	FS	Steelhead	8	D	Columbia River	0.02	0.0020	0.050	U	0.14	0.0014	0.035		0.78	0.000078	0.0019		0.38	0.038	0.95	
98064092	FS	Steelhead	8	F	Columbia River	0.04	0.0040	0.028		0.12	0.0012	0.017		0.37	0.000037	0.00051		0.45	0.045	0.63	
98064093	WB	Steelhead	8	D	Columbia River	0.04	0.0040	0.015		0.08	0.00080	0.012		0.5	0.000050	0.00074		0.6	0.060	0.88	
98064094	WB	Steelhead	8	F	Columbia River	0.04	0.0040	0.080		0.2	0.0020	0.027		2.18	0.00022	0.0029		0.51	0.051	0.68	
98064095	WB	Steelhead	8	F	Columbia River	0.01	0.0010	0.083	U	0.09	0.00090	0.011	U	1.55	0.00016	0.0018		0.33	0.033	0.39	
98124150	WB	Steelhead	48	F	Yakima River	0.02	0.0020	0.36	U	0.19	0.0019	0.086		0.27	0.000027	0.0012		0.42	0.042	1.9	
98124151	WB	Steelhead	48	F	Yakima River	0.05	0.0050	0.034		0.15	0.0015	0.052		0.23	0.000023	0.00079		0.6	0.060	2.1	
98124152	WB	Steelhead	48	F	Yakima River	0.03	0.0030	0.32		0.02	0.00020	0.0091		0.22	0.000022	0.001		0.34	0.034	1.6	
98124153	FS	Steelhead	48	F	Yakima River	0.03	0.0030	0.11		0.09	0.00090	0.047		0.18	0.000018	0.00095		0.36	0.036	1.9	
98124154	FS	Steelhead	48	F	Yakima River	0.01	0.0010	0.15	U	0.01	0.00010	0.0029	U	0.01	0.000010	0.00029	U	0.51	0.051	1.5	
98124155	FS	Steelhead	48	F	Yakima River	0.04	0.0040	0.033		0.15	0.0015	0.050		0.23	0.000023	0.00077		0.4	0.040	1.3	
98144100	WB	Steelhead	25		Hood River	0.04	0.0040	0.15	U	0.09	0.00090	0.033		0.13	0.000013	0.00048		0.48	0.048	1.8	
98144101	WB	Steelhead	25		Hood River	0.02	0.0020	0.057	U	0.06	0.00060	0.017		0.03	0.000030	0.00086	U	0.28	0.028	0.80	
98144102	WB	Steelhead	25		Hood River	0.02	0.0020	0.042	U	0.02	0.00020	0.0042	U	0.03	0.000030	0.00062	U	0.28	0.028	0.58	
98144103	FS	Steelhead	25		Hood River	0.03	0.0030	0.19	U	0.04	0.00040	0.025	U	0.06	0.000060	0.00037	U	0.27	0.027	1.7	
98144104	FS	Steelhead	25		Hood River	0.03	0.0030	0.13	U	0.02	0.00020	0.0083	U	0.11	0.000011	0.00046		0.45	0.045	1.9	
98144105	FS	Steelhead	25		Hood River	0.02	0.0020	0.18	U	0.06	0.00060	0.027		0.14	0.000014	0.00064		0.18	0.018	0.82	
96284741	FS	Walleye	30	B	Umatilla River	0.02	0.0020	0.27		0.09	0.00090	0.060		0.16	0.000016	0.0011		0.75	0.075	5.0	
96284742	FS	Walleye	30	B	Umatilla River	0.02	0.0020	0.33		0.1	0.0010	0.067		0.13	0.000013	0.00087		0.6	0.060	4.0	
96284743	FS	Walleye	30	B	Umatilla River	0.01	0.0010	0.39	U	0.01	0.00010	0.0077	U	0.01	0.000010	0.00077	U	0.65	0.065	5.0	
96284744	WB	Walleye	30	B	Umatilla River	0.08	0.0080	0.25		0.28	0.0028	0.035		0.32	0.000032	0.00040		3.82	0.38	4.8	
97490850	WB	Walleye	7	B	Columbia River	0.06	0.0060	0.25		0.13	0.0013	0.019		0.16	0.000016	0.00023		5.53	0.55	8.0	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDD				1,2,3,4,6,7,8-HpCDD				OCDD				2,3,7,8-TCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	ng/kg lipid
97490851	WB	Walleye	7	D	Columbia River	0.03	0.0030	0.16		0.11	0.0011	0.015		0.15	0.000015	0.00020		4.3	0.43	5.7	
97080811	FW	White Sturgeon	6	C	Columbia River	0.1	0.010	0.31		0.24	0.0024	0.050		0.4	0.000040	0.00083		22.6	2.3	47	
97080812	FW	White Sturgeon	6	C	Columbia River	0.07	0.0070	0.32		0.21	0.0021	0.055		0.34	0.000034	0.00089		21.25	2.1	56	
97080813	FW	White Sturgeon	6	C	Columbia River	0.07	0.0070	0.80		0.22	0.0022	0.15		0.36	0.000036	0.0024		8.8	0.88	59	
97080814	FW	White Sturgeon	6	C	Columbia River	0.07	0.0070	0.36		0.17	0.0017	0.055		0.29	0.000029	0.00094		12.57	1.3	41	
97080815	FW	White Sturgeon	7	A	Columbia River	0.1	0.010	0.057		0.32	0.0032	0.060		0.55	0.000055	0.0010		11.11	1.1	21	
97080816	FW	White Sturgeon	7	A	Columbia River	0.01	0.0010	0.44	U	0.17	0.0017	0.094		0.39	0.000039	0.0022		6.23	0.62	35	
97080817	FW	White Sturgeon	7	A	Columbia River	0.08	0.0080	0.30		0.32	0.0032	0.042		0.55	0.000055	0.00072		18.26	1.8	24	
97080818	FW	White Sturgeon	8	F	Columbia River	0.05	0.0050	0.39		0.41	0.0041	0.10		0.53	0.000053	0.0013		11.32	1.1	28	
97080819	FW	White Sturgeon	8	F	Columbia River	0.08	0.0080	0.080	U	0.36	0.0036	0.036		0.54	0.000054	0.00054		19.63	2.0	20	
97080820	FW	White Sturgeon	8	F	Columbia River	0.06	0.0060	0.29		0.45	0.0045	0.049		0.7	0.000070	0.00077		18	1.8	20	
97130800	WB	White Sturgeon	8	E	Columbia River	0.07	0.0070	0.35		0.49	0.0049	0.069		1.26	0.00013	0.0018		15.69	1.6	22	
97130801	WB	White Sturgeon	8	B	Columbia River	0.05	0.0050	0.34		0.45	0.0045	0.063		0.69	0.000069	0.00097		20.95	2.1	30	
97130802	WB	White Sturgeon	8	E	Columbia River	0.02	0.0020	0.026	U	0.34	0.0034	0.044		0.6	0.000060	0.00078		18.58	1.9	24	
97140800	FW	White Sturgeon	13	E	Snake River	0.05	0.0050	0.015		0.28	0.0028	0.043		0.41	0.000041	0.00063		2.58	0.26	4.0	
97140801	FW	White Sturgeon	13	E	Snake River	0.02	0.0020	0.21	U	0.02	0.0020	0.0032	U	0.44	0.000044	0.00071		2.42	0.24	3.9	
97320850	FW	White Sturgeon	13	F	Snake River	0.02	0.0020	0.22	U	0.41	0.0041	0.029		0.91	0.000091	0.00065		5.01	0.50	3.6	
97320851	FW	White Sturgeon	13	F	Snake River	0.06	0.0060	0.22		0.28	0.0028	0.026		0.49	0.000049	0.00046		5.01	0.50	4.7	
97500965	FW	White Sturgeon	9	D	Columbia River	0.06	0.0060	0.30		0.46	0.0046	0.053		0.72	0.000072	0.00083		16.9	1.7	19	
97500966	FW	White Sturgeon	9	B	Columbia River	0.05	0.0050	0.068	U	0.09	0.00090	0.012	U	1.79	0.00018	0.0025		42.3	4.2	58	
97500967	FW	White Sturgeon	9	B	Columbia River	0.03	0.0030	0.21	U	0.38	0.0038	0.049		1.08	0.00011	0.0014		43.4	4.3	56	
97500968	FW	White Sturgeon	9	A	Columbia River	0.03	0.0030	0.20	U	0.68	0.0068	0.049		1.87	0.00019	0.0013		54.1	5.4	39	
97500969	WB	White Sturgeon	9	A	Columbia River	0.01	0.0010	0.0090	U	0.01	0.00010	0.00090	U	0.99	0.000099	0.00089		41.6	4.2	38	
97500970	WB	White Sturgeon	9	A	Columbia River	0.04	0.0040	0.25		0.26	0.0026	0.044		0.61	0.000061	0.0010		7.97	0.80	14	
97500971	WB	White Sturgeon	9	A	Columbia River	0.03	0.0030	0.57	U	0.84	0.0084	0.11		2.46	0.00025	0.0032		10.6	1.1	14	
98024000	WB	White Sturgeon	9	I	Columbia River	0.05	0.0050	0.27		0.75	0.0075	0.059		3.52	0.00035	0.0027		47.3	4.7	37	
98024001	WB	White Sturgeon	9	F	Columbia River	0.04	0.0040	0.12	U	0.38	0.0038	0.064		1.53	0.00015	0.0026		9.03	0.90	15	
98024002	FW	White Sturgeon	9	I	Columbia River	0.06	0.0060	0.12		0.27	0.0027	0.037		1.15	0.00012	0.0016		23.5	2.4	32	
98024003	FW	White Sturgeon	9	I	Columbia River	0.02	0.0020	0.20	U	0.05	0.00050	0.0071		0.03	0.000030	0.00043		21.1	2.1	30	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8-PeCDF				2,3,4,7,8-PeCDF				1,2,3,4,7,8-HxCDF				1,2,3,6,7,8-HxCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
96294094	WB	Bridgelip Sucker	48	F	Yakima River	0.06	0.0030	0.040		0.12	0.060	0.80		0.02	0.0020	0.027		0.03	0.0030	0.040	
96294095	WB	Bridgelip Sucker	48	F	Yakima River	0.05	0.0025	0.026		0.11	0.055	0.58		0.02	0.0020	0.021		0.04	0.0040	0.042	
96294096	WB	Bridgelip Sucker	48	F	Yakima River	0.05	0.0025	0.035		0.12	0.060	0.85		0.02	0.0020	0.028		0.03	0.0030	0.042	
97500950	WB	Channel Catfish	8	F	Columbia River	0.18	0.0090	0.069		0.46	0.23	1.8		0.04	0.0040	0.031		0.02	0.0020	0.015	U
97500951	WB	Channel Catfish	8	F	Columbia River	0.14	0.0070	0.048		0.33	0.17	1.1		0.03	0.0030	0.021		0.01	0.0010	0.0069	U
97500952	WB	Channel Catfish	8	F	Columbia River	0.29	0.015	0.069		0.55	0.28	1.3		0.08	0.0080	0.038		0.06	0.0060	0.029	
97500956	FS	Channel Catfish	8	B	Columbia River	0.31	0.016	0.075		0.52	0.26	1.3		0.09	0.0090	0.044		0.05	0.0050	0.024	
97500957	FS	Channel Catfish	8	C	Columbia River	0.21	0.011	0.085		0.66	0.33	2.7		0.02	0.0020	0.016	U	0.03	0.0030	0.024	
97420931	WB	Coho	30		Umatilla River	0.02	0.0010	0.037	U	0.02	0.010	0.37	U	0.01	0.0010	0.037	U	0.01	0.0010	0.037	U
97420932	WB	Coho	30		Umatilla River	0.03	0.0015	0.031	U	0.08	0.040	0.82		0.02	0.0020	0.041	U	0.02	0.0020	0.041	U
97420933	WB	Coho	30		Umatilla River	0.03	0.0015	0.035	U	0.06	0.030	0.70		0.02	0.0020	0.047	U	0.02	0.0020	0.047	U
97450966	FS	Coho	30		Umatilla River	0.01	0.00050	0.019	U	0.01	0.0050	0.19	U	0.01	0.0010	0.038	U	0.01	0.0010	0.038	U
97450967	FS	Coho	30		Umatilla River	0.01	0.00050	0.023	U	0.09	0.045	2.1		0.01	0.0010	0.045	U	0.01	0.0010	0.045	U
97450968	FS	Coho	30		Umatilla River	0.01	0.00050	0.024	U	0.05	0.025	1.2		0.01	0.0010	0.048	U	0.01	0.0010	0.048	U
97450970	E	Coho	30		Umatilla River	0.01	0.00050	0.060	U	0.1	0.050	0.60		0.05	0.0050	0.060		0.03	0.0030	0.036	
97450971	E	Coho	30		Umatilla River	0.03	0.0015	0.018	U	0.1	0.050	0.60		0.02	0.0020	0.024		0.01	0.0010	0.012	U
97450972	E	Coho	30		Umatilla River	0.01	0.00050	0.062	U	0.01	0.0050	0.063	U	0.01	0.0010	0.012	U	0.01	0.0010	0.012	U
97070800	WB	Eulachon	3	B	Columbia River	0.15	0.0075	0.060		0.15	0.075	0.60		0.09	0.0090	0.072		0.1	0.010	0.080	
97070801	WB	Eulachon	3	B	Columbia River	0.1	0.0050	0.038		0.1	0.050	0.38		0.03	0.0030	0.023		0.05	0.0050	0.038	
97070802	WB	Eulachon	3	B	Columbia River	0.08	0.0040	0.031		0.14	0.070	0.54		0.09	0.0090	0.069	U	0.09	0.0090	0.069	U
97380975	WB	Fall Chinook	56		Klickitat River	0.03	0.0015	0.015	U	0.08	0.040	0.39		0.01	0.0010	0.097	U	0.01	0.0010	0.097	U
97380976	WB	Fall Chinook	56		Klickitat River	0.04	0.0020	0.020		0.03	0.015	0.15	U	0.02	0.0020	0.020	U	0.02	0.0020	0.020	U
97380977	WB	Fall Chinook	56		Klickitat River	0.01	0.00050	0.0051	U	0.06	0.030	0.31		0.03	0.0030	0.031	U	0.03	0.0030	0.031	U
97380981	FS	Fall Chinook	56		Klickitat River	0.02	0.0010	0.012	U	0.02	0.010	0.12	U	0.02	0.0020	0.024	U	0.02	0.0020	0.024	U
97380982	FS	Fall Chinook	56		Klickitat River	0.03	0.0015	0.014	U	0.03	0.015	0.14	U	0.02	0.0020	0.019	U	0.02	0.0020	0.019	U
97380983	FS	Fall Chinook	56		Klickitat River	0.02	0.0010	0.015	U	0.05	0.025	0.37		0.02	0.0020	0.029	U	0.02	0.0020	0.029	U
97380984	WB	Fall Chinook	8	G	Columbia River	0.03	0.0015	0.013	U	0.03	0.015	0.13	U	0.03	0.0030	0.025	U	0.03	0.0030	0.025	U
97380985	WB	Fall Chinook	8	G	Columbia River	0.04	0.0020	0.018	U	0.04	0.020	0.18	U	0.05	0.0050	0.045	U	0.05	0.0050	0.045	U
97380986	WB	Fall Chinook	8	G	Columbia River	0.03	0.0015	0.014	U	0.03	0.015	0.14	U	0.04	0.0040	0.038	U	0.04	0.0040	0.038	U
97380987	FS	Fall Chinook	8	G	Columbia River	0.02	0.0010	0.0096	U	0.02	0.010	0.096	U	0.01	0.0010	0.096	U	0.01	0.0010	0.096	U
97380988	FS	Fall Chinook	8	D	Columbia River	0.03	0.0015	0.015	U	0.03	0.015	0.15	U	0.04	0.0040	0.040	U	0.04	0.0040	0.040	U
97380989	FS	Fall Chinook	8	D	Columbia River	0.02	0.0010	0.011	U	0.02	0.010	0.11	U	0.01	0.0010	0.011	U	0.01	0.0010	0.011	U
97380997	FS	Fall Chinook	8	D	Columbia River	0.02	0.0010	0.010	U	0.1	0.050	0.52		0.01	0.0010	0.010	U	0.01	0.0010	0.010	U
97380998	E	Fall Chinook	8	D	Columbia River	0.03	0.0015	0.01	U	0.03	0.015	0.10	U	0.02	0.0020	0.013	U	0.02	0.0020	0.013	U
97400925	WB	Fall Chinook	14		Columbia River	0.03	0.0015	0.017	U	0.03	0.015	0.17	U	0.02	0.0020	0.023	U	0.02	0.0020	0.023	U
97400926	WB	Fall Chinook	14		Columbia River	0.02	0.0010	0.014	U	0.15	0.075	1.0		0.02	0.0020	0.027	U	0.02	0.0020	0.027	U
97400927	WB	Fall Chinook	14		Columbia River	0.02	0.0010	0.013	U	0.13	0.065	0.86		0.01	0.0010	0.013	U	0.01	0.0010	0.013	U
97400928	FS	Fall Chinook	14		Columbia River	0.02	0.0010	0.014	U	0.02	0.010	0.14	U	0.02	0.0020	0.029	U	0.02	0.0020	0.029	U
97400929	FS	Fall Chinook	14		Columbia River	0.01	0.00050	0.0091	U	0.01	0.0050	0.091	U	0.04	0.0040	0.073	U	0.04	0.0040	0.073	U
97400930	FS	Fall Chinook	14		Columbia River	0.08	0.0040	0.057		0.16	0.080	1.1		0.02	0.0020	0.029	U	0.02	0.0020	0.029	U
97420925	WB	Fall Chinook	30		Umatilla River	0.02	0.0010	0.017	U	0.02	0.010	0.17	U	0.01	0.0010	0.017	U	0.01	0.0010	0.017	U
97420926	WB	Fall Chinook	30		Umatilla River	0.02	0.0010	0.018	U	0.1	0.050	0.91		0.01	0.0010	0.018	U	0.01	0.0010	0.018	U
97420927	WB	Fall Chinook	30		Umatilla River	0.02	0.0010	0.017	U	0.02	0.010	0.17	U	0.01	0.0010	0.017	U	0.01	0.0010	0.017	U
97420928	FS	Fall Chinook	30		Umatilla River	0.01	0.00050	0.014	U	0.07	0.035	0.97		0.02	0.0020	0.056	U	0.02	0.0020	0.056	U
97420929	FS	Fall Chinook	30		Umatilla River	0.01	0.00050	0.015	U	0.12	0.060	1.8		0.01	0.0010	0.029	U	0.01	0.0010	0.029	U
97420930	FS	Fall Chinook	30		Umatilla River	0.01	0.00050	0.021	U	0.01	0.0050	0.21	U	0.01	0.0010	0.042	U	0.01	0.0010	0.042	U
97420934	WB	Fall Chinook	48	F	Yakima River	0.03	0.0015	0.023	U	0.03	0.015	0.23	U	0.02	0.0020	0.031	U	0.02	0.0020	0.031	U
97420935	WB	Fall Chinook	48	F	Yakima River	0.04	0.0020	0.035	U	0.04	0.020	0.35	U	0.03	0.0030	0.053	U	0.03	0.0030	0.053	U
97420936	WB	Fall Chinook	48	F	Yakima River	0.03	0.0015	0.020	U	0.03	0.015	0.20	U	0.02	0.0020	0.027	U	0.02	0.0020	0.027	U
97420937	FS	Fall Chinook	48	F	Yakima River	0.05	0.0025	0.071	U	0.05	0.025	0.71	U	0.04	0.0040	0.11	U	0.04	0.0040	0.11	U
97420938	FS	Fall Chinook	48	F	Yakima River	0.03	0.0015	0.048	U	0.03	0.015	0.48	U	0.04	0.0040	0.13	U	0.04	0.0040	0.13	U

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8-PeCDF				2,3,4,7,8-PeCDF				1,2,3,4,7,8-HxCDF				1,2,3,6,7,8-HxCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
97420939	FS	Fall Chinook	48	F	Yakima River	0.04	0.0020	0.039	U	0.04	0.020	0.39	U	0.06	0.0060	0.12	U	0.06	0.0060	0.12	U
97420940	FS	Fall Chinook	48	F	Yakima River	0.03	0.0015	0.043	U	0.03	0.015	0.43	U	0.04	0.0040	0.11	U	0.04	0.0040	0.11	U
96284795	WB	Largescale Sucker	30	A	Umatilla River	0.04	0.0020	0.057		0.05	0.025	0.71		0.02	0.0020	0.057		0.03	0.0030	0.086	
96284796	WB	Largescale Sucker	30	A	Umatilla River	0.03	0.0015	0.043		0.03	0.015	0.43		0.01	0.0010	0.029	U	0.02	0.0020	0.057	
96284797	WB	Largescale Sucker	30	A	Umatilla River	0.04	0.0020	0.047		0.05	0.025	0.58		0.02	0.0020	0.047		0.04	0.0040	0.093	
96284798	FS	Largescale Sucker	30	A	Umatilla River	0.03	0.0015	0.13		0.03	0.015	1.3		0.01	0.0010	0.083	U	0.03	0.0030	0.25	
96294091	WB	Largescale Sucker	48	F	Yakima River	0.05	0.0025	0.048		0.13	0.065	1.3		0.03	0.0030	0.058		0.01	0.0010	0.019	U
96294092	WB	Largescale Sucker	48	F	Yakima River	0.04	0.0020	0.057		0.1	0.050	1.4		0.01	0.0010	0.029	U	0.03	0.0030	0.086	
96294093	WB	Largescale Sucker	48	F	Yakima River	0.06	0.0030	0.077		0.19	0.095	2.4		0.03	0.0030	0.077		0.04	0.0040	0.10	
96374700	FS	Largescale Sucker	30	A	Umatilla River	0.01	0.00050	0.042	U	0.07	0.035	2.9		0.08	0.0080	0.67		0.08	0.0080	0.67	
96374701	FS	Largescale Sucker	30	A	Umatilla River	0.04	0.0020	0.14		0.03	0.015	1.1		0.01	0.0010	0.071	U	0.04	0.0040	0.29	
96374702	FS	Largescale Sucker	30	A	Umatilla River	0.04	0.0020	0.13		0.03	0.015	0.94		0.03	0.0030	0.19		0.01	0.0010	0.062	U
96374793	WB	Largescale Sucker	49		Yakima River	0.03	0.0015	0.032		0.03	0.015	0.32		0.01	0.0010	0.021		0.02	0.0020	0.043	
96374794	WB	Largescale Sucker	49		Yakima River	0.04	0.0020	0.025		0.06	0.030	0.38		0.02	0.0020	0.025		0.03	0.0030	0.037	
96374795	WB	Largescale Sucker	49		Yakima River	0.05	0.0025	0.040		0.05	0.025	0.40		0.01	0.0010	0.016	U	0.03	0.0030	0.048	
96374796	FS	Largescale Sucker	49		Yakima River	0.04	0.0020	0.080		0.03	0.015	0.60		0.02	0.0020	0.080		0.03	0.0030	0.12	
96374797	FS	Largescale Sucker	49		Yakima River	0.03	0.0015	0.050		0.02	0.010	0.33		0.01	0.0010	0.033	U	0.02	0.0020	0.067	
96374798	FS	Largescale Sucker	49		Yakima River	0.08	0.0040	0.17		0.02	0.010	0.44	U	0.08	0.0080	0.35		0.1	0.010	0.44	
97080800	WB	Largescale Sucker	98	D	Deschutes River	0.02	0.0010	0.012	U	0.07	0.035	0.43		0.03	0.0030	0.037		0.02	0.0020	0.025	U
97080801	WB	Largescale Sucker	98	C	Deschutes River	0.05	0.0025	0.036		0.05	0.025	0.36		0.02	0.0020	0.029		0.01	0.0010	0.014	U
97080802	WB	Largescale Sucker	98	B	Deschutes River	0.05	0.0025	0.024		0.06	0.030	0.29		0.02	0.0020	0.019		0.03	0.0030	0.029	
97080824	FS	Largescale Sucker	98	E	Deschutes River	0.04	0.0020	0.062	U	0.04	0.020	0.63	U	0.06	0.0060	0.19	U	0.1	0.010	0.31	
97080825	FS	Largescale Sucker	98	C	Deschutes River	0.03	0.0015	0.043	U	0.03	0.015	0.43	U	0.08	0.0080	0.23	U	0.08	0.0080	0.23	U
97080890	FS	Largescale Sucker	98	A	Deschutes River	0.06	0.0030	0.068		0.01	0.0050	0.11	U	0.04	0.0040	0.091		0.04	0.0040	0.091	
97304975	WB	Largescale Sucker	9	E	Columbia River	0.02	0.0010	0.026	U	0.12	0.060	1.5		0.02	0.0020	0.051		0.01	0.0010	0.026	
97304976	WB	Largescale Sucker	9	E	Columbia River	0.02	0.0010	0.031	U	0.02	0.010	0.31	U	0.02	0.0020	0.062	U	0.02	0.0020	0.062	U
97304977	WB	Largescale Sucker	9	F	Columbia River	0.02	0.0010	0.042	U	0.02	0.010	0.42	U	0.01	0.0010	0.042	U	0.01	0.0010	0.042	
97304978	FS	Largescale Sucker	9	F	Columbia River	0.02	0.0010	0.053	U	0.05	0.025	1.3		0.01	0.0010	0.053	U	0.01	0.0010	0.053	U
97304979	FS	Largescale Sucker	9	H	Columbia River	0.02	0.0010	0.053	U	0.02	0.010	0.53	U	0.03	0.0030	0.16		0.01	0.0010	0.053	U
97304980	FS	Largescale Sucker	9	H	Columbia River	0.01	0.00050	0.036	U	0.05	0.025	1.8		0.01	0.0010	0.071	U	0.01	0.0010	0.071	U
97500953	WB	Largescale Sucker	8	F	Columbia River	0.04	0.0020	0.031		0.07	0.035	0.55		0.02	0.0020	0.031	U	0.02	0.0020	0.031	U
97500954	WB	Largescale Sucker	8	I	Columbia River	0.04	0.0020	0.031		0.11	0.055	0.85		0.01	0.0010	0.015	U	0.01	0.0010	0.015	U
98164075	WB	Largescale Sucker	48	H	Yakima River	0.04	0.0020	0.033		0.12	0.060	0.98		0.02	0.0020	0.033		0.02	0.0020	0.033	
98164076	WB	Largescale Sucker	48	H	Yakima River	0.03	0.0015	0.031		0.15	0.075	1.6		0.03	0.0030	0.062		0.01	0.0010	0.021	
98164077	WB	Largescale Sucker	48	J	Yakima River	0.01	0.00050	0.012	U	0.07	0.035	0.83		0.01	0.0010	0.024		0.01	0.0010	0.024	
98164078	FS	Largescale Sucker	48	J	Yakima River	0.02	0.0010	0.036	U	0.1	0.050	1.8		0.04	0.0040	0.14	U	0.04	0.0040	0.14	
98164079	FS	Largescale Sucker	48	I	Yakima River	0.03	0.0015	0.071	U	0.03	0.015	0.71	U	0.02	0.0020	0.095	U	0.02	0.0020	0.095	
98164080	FS	Largescale Sucker	48	I	Yakima River	0.02	0.0010	0.029	U	0.02	0.010	0.29	U	0.01	0.0010	0.029		0.01	0.0010	0.029	
98184125	WB	Largescale Sucker	13	E	Snake River	0.05	0.0025	0.050		0.05	0.025	0.50		0.04	0.0040	0.080	U	0.04	0.0040	0.080	
98184126	WB	Largescale Sucker	13	E	Snake River	0.02	0.0010	0.037		0.02	0.010	0.37		0.01	0.0010	0.037	U	0.01	0.0010	0.037	
98184127	WB	Largescale Sucker	13	C	Snake River	0.02	0.0010	0.028		0.02	0.010	0.28		0.02	0.0020	0.056	U	0.02	0.0020	0.056	
98184128	FS	Largescale Sucker	13	C	Snake River	0.01	0.00050	0.025	U	0.02	0.010	0.50		0.01	0.0010	0.050		0.01	0.0010	0.050	
98184129	FS	Largescale Sucker	13	D	Snake River	0.02	0.0010	0.059	U	0.02	0.010	0.59	U	0.01	0.0010	0.059	U	0.01	0.0010	0.059	U
98184130	FS	Largescale Sucker	13	D	Snake River	0.01	0.00050	0.036	U	0.01	0.0050	0.36	U	0.01	0.0010	0.071	U	0.01	0.0010	0.071	U
96284904	WB	Mountain Whitefish	101		Umatilla River	0.06	0.0030	0.031		0.07	0.035	0.36		0.03	0.0030	0.031		0.03	0.0030	0.031	
96284905	WB	Mountain Whitefish	101	A	Umatilla River	0.06	0.0030	0.026		0.07	0.035	0.30		0.03	0.0030	0.026		0.04	0.0040	0.035	
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	0.06	0.0030	0.028		0.09	0.045	0.42		0.03	0.0030	0.028		0.04	0.0040	0.037	
96284907	FS	Mountain Whitefish	101	A	Umatilla River	0.05	0.0025	0.042		0.06	0.030	0.50		0.01	0.0010	0.017	U	0.04	0.0040	0.067	
96284908	FS	Mountain Whitefish	101	A	Umatilla River	0.05	0.0025	0.045		0.01	0.0050	0.089	U	0.01	0.0010	0.018	U	0.03	0.0030	0.054	
96284909	FS	Mountain Whitefish	101		Umatilla River	0.04	0.0020	0.032		0.04	0.020	0.32		0.02	0.0020	0.032		0.03	0.0030	0.048	
97080804	WB	Mountain Whitefish	98	D	Deschutes River	0.07	0.0035	0.081		0.1	0.050	1.2		0.04	0.0040	0.093		0.04	0.0040	0.093	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8-PeCDF				2,3,4,7,8-PeCDF				1,2,3,4,7,8-HxCDF				1,2,3,6,7,8-HxCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
97080805	WB	Mountain Whitefish	98	C	Deschutes River	0.08	0.0040	0.089		0.09	0.045	1.0		0.09	0.0090	0.20	U	0.09	0.0090	0.20	U
97080806	WB	Mountain Whitefish	98	B	Deschutes River	0.04	0.0020	0.039	U	0.1	0.050	0.98		0.06	0.0060	0.12	U	0.06	0.0060	0.12	U
97080807	FS	Mountain Whitefish	98	A	Deschutes River	0.1	0.0050	0.21		0.11	0.055	2.3		0.05	0.0050	0.21		0.06	0.0060	0.25	
97080808	FS	Mountain Whitefish	98	A	Deschutes River	0.1	0.0050	0.19		0.11	0.055	2.1		0.05	0.0050	0.19		0.06	0.0060	0.23	
97080809	FS	Mountain Whitefish	98	B	Deschutes River	0.06	0.0030	0.25		0.06	0.030	2.5		0.03	0.0030	0.25		0.04	0.0040	0.33	
97080810	FS	Mountain Whitefish	98	A	Deschutes River	0.08	0.0040	0.14		0.08	0.040	1.4		0.04	0.0040	0.14		0.05	0.0050	0.17	
97470990	WB	Mountain Whitefish	9	Q	Columbia River	0.11	0.0055	0.068		0.29	0.15	1.8		0.06	0.0060	0.074		0.04	0.0040	0.049	
97470991	WB	Mountain Whitefish	9	Q	Columbia River	0.26	0.013	0.14		0.36	0.18	1.9		0.02	0.0020	0.021	U	0.02	0.0020	0.021	U
97470992	WB	Mountain Whitefish	9	P	Columbia River	0.11	0.0055	0.068		0.25	0.13	1.5		0.03	0.0030	0.037		0.02	0.0020	0.025	
97470993	FS	Mountain Whitefish	9	O	Columbia River	0.12	0.0060	0.087		0.27	0.14	2.0		0.03	0.0030	0.043		0.02	0.0020	0.029	
97470994	FS	Mountain Whitefish	9	O	Columbia River	0.13	0.0065	0.084		0.26	0.13	1.7		0.04	0.0040	0.052		0.03	0.0030	0.039	
97470995	FS	Mountain Whitefish	9	N	Columbia River	0.14	0.0070	0.095		0.35	0.18	2.4		0.04	0.0040	0.054		0.01	0.0010	0.014	U
98124160	WB	Mountain Whitefish	48	F	Yakima River	0.12	0.0060	0.064		0.28	0.14	1.5		0.05	0.0050	0.053		0.04	0.0040	0.043	
98124161	WB	Mountain Whitefish	48	F	Yakima River	0.15	0.0075	0.093		0.36	0.18	2.2		0.04	0.0040	0.049		0.06	0.0060	0.074	
98124162	WB	Mountain Whitefish	48	F	Yakima River	0.11	0.0055	0.053		0.25	0.13	1.2		0.01	0.0010	0.0096	U	0.01	0.0010	0.0096	U
98124165	FS	Mountain Whitefish	48	F	Yakima River	0.06	0.0030	0.036	U	0.18	0.090	1.1		0.03	0.0030	0.036		0.02	0.0020	0.024	U
98124166	FS	Mountain Whitefish	48	F	Yakima River	0.13	0.0065	0.084		0.23	0.12	1.5		0.06	0.0060	0.078	U	0.06	0.0060	0.078	U
98124167	FS	Mountain Whitefish	48	F	Yakima River	0.1	0.0050	0.058		0.02	0.010	0.12	U	0.02	0.0020	0.023	U	0.02	0.0020	0.023	
96254770	WB	Pacific lamprey	21		Willamette River	0.29	0.015	0.068		0.01	0.0050	0.023		0.07	0.0070	0.033		0.12	0.012	0.056	
96254771	WB	Pacific lamprey	21		Willamette River	0.28	0.014	0.071		0.11	0.055	0.28		0.1	0.010	0.051		0.12	0.012	0.061	
96254772	WB	Pacific lamprey	21		Willamette River	0.27	0.014	0.072		0.12	0.060	0.32		0.1	0.010	0.053		0.11	0.011	0.059	
97220910	WB	Pacific lamprey	21		Willamette River	0.18	0.0090	0.062		0.12	0.060	0.41		0.01	0.0010	0.0069	U	0.01	0.0010	0.0069	U
97220911	WB	Pacific lamprey	21		Willamette River	0.32	0.016	0.089		0.07	0.035	0.20	U	0.13	0.013	0.073		0.02	0.0020	0.011	U
97220912	WB	Pacific lamprey	21		Willamette River	0.21	0.011	0.057		0.13	0.065	0.36		0.09	0.0090	0.049		0.08	0.0080	0.044	
97220915	FS	Pacific lamprey	21		Willamette River	0.32	0.016	0.081		0.1	0.050	0.25		0.01	0.0010	0.0051	U	0.1	0.010	0.051	
97220916	FS	Pacific lamprey	21		Willamette River	0.02	0.0010	0.0054	U	0.11	0.055	0.30		0.12	0.012	0.065		0.08	0.0080	0.043	
97220917	FS	Pacific lamprey	21		Willamette River	0.04	0.0020	0.0092	U	0.13	0.065	0.30		0.12	0.012	0.055		0.08	0.0080	0.037	
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	0.43	0.022	0.12		0.04	0.020	0.12	U	0.19	0.019	0.11		0.14	0.014	0.080	
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	0.47	0.024	0.13		0.14	0.070	0.38	U	0.16	0.016	0.086		0.16	0.016	0.086	
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	0.41	0.021	0.11		0.16	0.080	0.42		0.14	0.014	0.074		0.16	0.016	0.084	
96284845	WB	Rainbow Trout	101		Umatilla River	0.04	0.0020	0.042		0.04	0.020	0.42		0.01	0.0010	0.021	U	0.03	0.0030	0.062	
96284846	WB	Rainbow Trout	101	B	Thomas Creek	0.04	0.0020	0.044		0.04	0.020	0.44		0.02	0.0020	0.044		0.03	0.0030	0.067	
96284990	WB	Rainbow Trout	101	C	Meacham Creek	0.05	0.0025	0.089		0.05	0.025	0.89		0.01	0.0010	0.036	U	0.04	0.0040	0.14	
96284991	WB	Rainbow Trout	101	C	Meacham Creek	0.05	0.0025	0.076		0.05	0.025	0.76		0.03	0.0030	0.091		0.04	0.0040	0.12	
96374730	FS	Rainbow Trout	49		Yakima River	0.04	0.0020	0.059		0.04	0.020	0.59		0.02	0.0020	0.059		0.01	0.0010	0.029	U
96374731	FS	Rainbow Trout	49		Yakima River	0.18	0.0090	0.28		0.02	0.010	0.31	U	0.18	0.018	0.56		0.21	0.021	0.66	
96374732	FS	Rainbow Trout	49		Yakima River	0.04	0.0020	0.054		0.05	0.025	0.68		0.02	0.0020	0.054		0.04	0.0040	0.11	
96374765	WB	Rainbow Trout	49		Yakima River	0.08	0.0040	0.059		0.1	0.050	0.74		0.04	0.0040	0.059		0.06	0.0060	0.088	
96374766	WB	Rainbow Trout	49		Yakima River	0.05	0.0025	0.043		0.08	0.040	0.69		0.01	0.0010	0.017	U	0.04	0.0040	0.069	
96374767	WB	Rainbow Trout	49		Yakima River	0.01	0.00050	0.0086	U	0.07	0.035	0.60		0.03	0.0030	0.052		0.04	0.0040	0.069	
97080803	WB	Rainbow Trout	98	A	Deschutes River	0.08	0.0040	0.083		0.12	0.060	1.3		0.04	0.0040	0.083		0.05	0.0050	0.10	
97080821	WB	Rainbow Trout	98	E	Deschutes River	0.09	0.0045	0.11		0.05	0.025	0.58	U	0.12	0.012	0.28	U	0.12	0.012	0.28	U
97080822	WB	Rainbow Trout	98	D	Deschutes River	0.06	0.0030	0.071		0.1	0.050	1.2		0.01	0.0010	0.024	U	0.04	0.0040	0.095	
97080823	FS	Rainbow Trout	98	B	Deschutes River	0.06	0.0030	0.094		0.07	0.035	1.1		0.05	0.0050	0.16	U	0.05	0.0050	0.16	U
97170950	FS	Rainbow Trout	98	E	Deschutes River	0.01	0.00050	0.014	U	0.06	0.030	0.86		0.01	0.0010	0.029	U	0.01	0.0010	0.029	U
97170951	FS	Rainbow Trout	98	D	Deschutes River	0.04	0.0020	0.065		0.06	0.030	0.97		0.02	0.0020	0.065		0.04	0.0040	0.13	
97170952	FS	Rainbow Trout	98	C	Deschutes River	0.04	0.0020	0.062		0.01	0.0050	0.16	U	0.01	0.0010	0.031	U	0.01	0.0010	0.031	U
97330975	WB	Rainbow Trout	56	B	Klickitat River	0.03	0.0015	0.024	U	0.03	0.015	0.24	U	0.01	0.0010	0.016	U	0.01	0.0010	0.016	U
97330976	WB	Rainbow Trout	56	F	Klickitat River	0.03	0.0015	0.020	U	0.03	0.015	0.20	U	0.03	0.0030	0.041	U	0.03	0.0030	0.041	U
97200840	WB	Spring Chinook	30		Umatilla River	0.14	0.0070	0.041		0.17	0.085	0.50		0.03	0.0030	0.018	U	0.05	0.0050	0.029	
97200841	WB	Spring Chinook	30		Umatilla River	0.12	0.0060	0.039		0.03	0.015	0.098	U	0.04	0.0040	0.026	U	0.04	0.0040	0.026	U

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8-PeCDF				2,3,4,7,8-PeCDF				1,2,3,4,7,8-HxCDF				1,2,3,6,7,8-HxCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
97200842	WB	Spring Chinook	30		Umatilla River	0.11	0.0055	0.036		0.03	0.015	0.098	U	0.03	0.0030	0.020	U	0.05	0.0050	0.033	
97200843	FS	Spring Chinook	30		Umatilla River	0.04	0.0020	0.013	U	0.04	0.020	0.13	U	0.02	0.0020	0.013	U	0.04	0.0040	0.025	
97200844	FS	Spring Chinook	30		Umatilla River	0.03	0.0015	0.011	U	0.11	0.055	0.41		0.02	0.0020	0.015	U	0.05	0.0050	0.037	
97200845	FS	Spring Chinook	30		Umatilla River	0.12	0.0060	0.039		0.02	0.010	0.065	U	0.03	0.0030	0.020	U	0.03	0.0030	0.020	U
97200846	E	Spring Chinook	30		Umatilla River	0.03	0.0015	0.0082	U	0.06	0.030	0.17		0.03	0.0030	0.016	U	0.03	0.0030	0.016	U
97200847	E	Spring Chinook	30		Umatilla River	0.02	0.0010	0.0053	U	0.09	0.045	0.24		0.01	0.0010	0.0053	U	0.02	0.0020	0.011	
97200848	E	Spring Chinook	30		Umatilla River	0.03	0.0015	0.0082	U	0.03	0.015	0.082	U	0.04	0.0040	0.022	U	0.04	0.0040	0.022	U
97220900	WB	Spring Chinook	48	G	Yakima River	0.02	0.0010	0.0068	U	0.16	0.080	0.54		0.01	0.0010	0.0068	U	0.01	0.0010	0.0068	U
97220901	WB	Spring Chinook	48	G	Yakima River	0.36	0.018	0.13		0.26	0.13	0.96		0.15	0.015	0.11		0.13	0.013	0.096	
97220902	WB	Spring Chinook	48	G	Yakima River	0.12	0.0060	0.040		0.16	0.080	0.53		0.02	0.0020	0.013	U	0.02	0.0020	0.013	U
97220903	FS	Spring Chinook	48	G	Yakima River	0.1	0.0050	0.042		0.15	0.075	0.63		0.02	0.0020	0.017	U	0.02	0.0020	0.017	
97220904	FS	Spring Chinook	48	G	Yakima River	0.11	0.0055	0.051		0.13	0.065	0.60		0.02	0.0020	0.019	U	0.02	0.0020	0.019	
97220905	FS	Spring Chinook	48	G	Yakima River	0.12	0.0060	0.039		0.17	0.085	0.56		0.03	0.0030	0.020		0.02	0.0020	0.013	
97250800	WB	Spring Chinook	94		Looking Glass Creek	0.11	0.0055	0.044		0.18	0.090	0.72		0.02	0.0020	0.016		0.02	0.0020	0.016	U
97250801	WB	Spring Chinook	94		Looking Glass Creek	0.12	0.0060	0.042		0.21	0.11	0.74		0.02	0.0020	0.014	U	0.02	0.0020	0.014	U
97250802	WB	Spring Chinook	94		Looking Glass Creek	0.01	0.00050	0.0037	U	0.21	0.11	0.78		0.04	0.0040	0.030		0.01	0.0010	0.0075	
97250803	FS	Spring Chinook	94		Looking Glass Creek	0.12	0.0060	0.056		0.17	0.085	0.79		0.03	0.0030	0.028		0.03	0.0030	0.028	
97250804	FS	Spring Chinook	94		Looking Glass Creek	0.14	0.0070	0.064		0.18	0.090	0.83		0.03	0.0030	0.028		0.03	0.0030	0.028	
97250805	FS	Spring Chinook	94		Looking Glass Creek	0.18	0.0090	0.071		0.15	0.075	0.59		0.04	0.0040	0.031		0.05	0.0050	0.039	
97250806	FS	Spring Chinook	94		Looking Glass Creek	0.14	0.0070	0.058		0.16	0.080	0.66		0.03	0.0030	0.025		0.03	0.0030	0.025	
97250807	E	Spring Chinook	94		Looking Glass Creek	0.08	0.0040	0.021	U	0.08	0.040	0.21	U	0.19	0.019	0.10	U	0.19	0.019	0.10	U
97250808	E	Spring Chinook	94		Looking Glass Creek	0.02	0.0010	0.0051	U	0.02	0.010	0.051	U	0.01	0.0010	0.0051	U	0.02	0.0020	0.010	
97250809	E	Spring Chinook	94		Looking Glass Creek	0.06	0.0030	0.016		0.1	0.050	0.28		0.02	0.0020	0.011	U	0.02	0.0020	0.011	U
97250811	WB	Spring Chinook	51		Icicle Creek	0.11	0.0055	0.049		0.14	0.070	0.63		0.05	0.0050	0.045	U	0.05	0.0050	0.045	U
97250812	WB	Spring Chinook	51		Icicle Creek	0.17	0.0085	0.072		0.23	0.12	0.98		0.06	0.0060	0.051		0.06	0.0060	0.051	
97250813	WB	Spring Chinook	51		Icicle Creek	0.18	0.0090	0.089		0.21	0.11	1.0		0.06	0.0060	0.059		0.07	0.0070	0.069	
97250814	FS	Spring Chinook	51		Icicle Creek	0.13	0.0065	0.071		0.17	0.085	0.92		0.05	0.0050	0.054	U	0.06	0.0060	0.065	
97250815	FS	Spring Chinook	51		Icicle Creek	0.13	0.0065	0.074		0.02	0.010	0.11	U	0.02	0.0020	0.023	U	0.03	0.0030	0.034	
97250816	FS	Spring Chinook	51		Icicle Creek	0.12	0.0060	0.068		0.02	0.010	0.11	U	0.04	0.0040	0.045		0.05	0.0050	0.057	
97250820	WB	Spring Chinook	63		Wind River	0.01	0.00050	0.0049	U	0.16	0.080	0.78		0.01	0.0010	0.0098	U	0.03	0.0030	0.029	
97250821	WB	Spring Chinook	63		Wind River	0.13	0.0065	0.053		0.17	0.085	0.69		0.03	0.0030	0.024		0.03	0.0030	0.024	
97250822	WB	Spring Chinook	63		Wind River	0.13	0.0065	0.056		0.18	0.090	0.77		0.01	0.0010	0.0085	U	0.01	0.0010	0.0085	U
97250823	FS	Spring Chinook	63		Wind River	0.13	0.0065	0.090		0.15	0.075	1.0		0.01	0.0010	0.014	U	0.01	0.0010	0.014	U
97250824	FS	Spring Chinook	63		Wind River	0.14	0.0070	0.074		0.17	0.085	0.90		0.01	0.0010	0.011	U	0.03	0.0030	0.032	
97250825	FS	Spring Chinook	63		Wind River	0.1	0.0050	0.052		0.18	0.090	0.94		0.06	0.0060	0.062	U	0.06	0.0060	0.062	U
97260975	WB	Spring Chinook	62		Little White Salmon River	0.05	0.0025	0.019	U	0.05	0.025	0.19	U	0.05	0.0050	0.038	U	0.05	0.0050	0.038	U
97260976	WB	Spring Chinook	62		Little White Salmon River	0.04	0.0020	0.018	U	0.14	0.070	0.64		0.06	0.0060	0.055	U	0.06	0.0060	0.055	U
97260977	WB	Spring Chinook	62		Little White Salmon River	0.11	0.0055	0.050		0.15	0.075	0.68		0.03	0.0030	0.027		0.03	0.0030	0.027	
97260978	FS	Spring Chinook	62		Little White Salmon River	0.14	0.0070	0.075		0.15	0.075	0.81		0.03	0.0030	0.032		0.04	0.0040	0.043	
97260979	FS	Spring Chinook	62		Little White Salmon River	0.12	0.0060	0.055		0.16	0.080	0.73		0.02	0.0020	0.018	U	0.03	0.0030	0.027	
97260980	FS	Spring Chinook	62		Little White Salmon River	0.12	0.0060	0.062		0.17	0.085	0.88		0.01	0.0010	0.010	U	0.03	0.0030	0.031	
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.06	0.0030	0.042		0.13	0.065	0.92		0.03	0.0030	0.042		0.03	0.0030	0.042	
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.05	0.0025	0.035		0.11	0.055	0.78		0.01	0.0010	0.014	U	0.02	0.0020	0.028	
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.0020	0.024	U	0.04	0.020	0.24	U	0.03	0.0030	0.036	U	0.03	0.0030	0.036	U
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.08	0.0040	0.080		0.09	0.045	0.90		0.03	0.0030	0.060	U	0.03	0.0030	0.060	U
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.05	0.0025	0.045		0.08	0.040	0.73		0.01	0.0010	0.018	U	0.01	0.0010	0.018	
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.07	0.0035	0.049		0.09	0.045	0.63		0.04	0.0040	0.056	U	0.04	0.0040	0.056	U
97320852	WB	Spring Chinook	56	A	Klickitat River	0.08	0.0040	0.095		0.16	0.080	1.9		0.03	0.0030	0.071		0.03	0.0030	0.071	
97320853	WB	Spring Chinook	56	A	Klickitat River	0.12	0.0060	0.12		0.17	0.085	1.7		0.02	0.0020	0.041	U	0.02	0.0020	0.041	
97320854	WB	Spring Chinook	56	A	Klickitat River	0.08	0.0040	0.087		0.15	0.075	1.6		0.06	0.0060	0.13		0.04	0.0040	0.087	
97320855	FS	Spring Chinook	56	A	Klickitat River	0.1	0.0050	0.23		0.12	0.060	2.7		0.02	0.0020	0.091	U	0.04	0.0040	0.18	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8-PeCDF				2,3,4,7,8-PeCDF				1,2,3,4,7,8-HxCDF				1,2,3,6,7,8-HxCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
97320856	FS	Spring Chinook	56	A	Klickitat River	0.08	0.0040	0.13		0.13	0.065	2.2		0.01	0.0010	0.033	U	0.04	0.0040	0.13	
97320857	FS	Spring Chinook	56	A	Klickitat River	0.02	0.0010	0.031	U	0.13	0.065	2.0		0.01	0.0010	0.031	U	0.03	0.0030	0.094	
97090980	FS	Steelhead	96		Clearwater River	0.18	0.0090	0.21		0.43	0.22	4.9		0.06	0.0060	0.14	U	0.08	0.0080	0.18	
97090981	FS	Steelhead	96		Clearwater River	0.14	0.0070	0.18		0.3	0.15	4.0		0.07	0.0070	0.18	U	0.07	0.0070	0.18	U
97090982	FS	Steelhead	96		Clearwater River	0.12	0.0060	0.16		0.29	0.15	3.8		0.13	0.013	0.34	U	0.13	0.013	0.34	U
97090983	WB	Steelhead	96		Clearwater River	0.12	0.0060	0.11		0.29	0.15	2.5		0.03	0.0030	0.053		0.06	0.0060	0.11	
97090984	WB	Steelhead	96		Clearwater River	0.17	0.0085	0.14		0.35	0.18	3.0		0.05	0.0050	0.085		0.07	0.0070	0.12	
97090985	WB	Steelhead	96		Clearwater River	0.18	0.0090	0.16		0.37	0.19	3.3		0.06	0.0060	0.11		0.09	0.0090	0.16	
97090986	FS	Steelhead	96		Clearwater River	0.23	0.012	0.23		0.51	0.26	5.1		0.05	0.0050	0.10		0.08	0.0080	0.16	
97140810	WB	Steelhead	93	A	Snake River	0.13	0.0065	0.12		0.34	0.17	3.1		0.03	0.0030	0.055		0.01	0.0010	0.018	U
97140811	WB	Steelhead	93	A	Snake River	0.09	0.0045	0.082		0.16	0.080	1.5		0.02	0.0020	0.036	U	0.04	0.0040	0.073	
97140812	WB	Steelhead	93	A	Snake River	0.11	0.0055	0.15		0.2	0.10	2.7		0.01	0.0010	0.027	U	0.01	0.0010	0.027	U
97140815	FS	Steelhead	93	A	Snake River	0.07	0.0035	0.092		0.14	0.070	1.8		0.02	0.0020	0.053	U	0.02	0.0020	0.053	U
97140816	FS	Steelhead	93	A	Snake River	0.01	0.00050	0.016	U	0.23	0.12	3.6		0.01	0.0010	0.031	U	0.04	0.0040	0.13	
97140817	FS	Steelhead	93	A	Snake River	0.11	0.0055	0.15		0.17	0.085	2.3		0.02	0.0020	0.054	U	0.04	0.0040	0.11	
97380978	WB	Steelhead	56		Klickitat River	0.03	0.0015	0.010	U	0.35	0.18	1.2		0.02	0.0020	0.014	U	0.02	0.0020	0.014	U
97380979	WB	Steelhead	56		Klickitat River	0.1	0.0050	0.036		0.16	0.080	0.58		0.03	0.0030	0.022	U	0.03	0.0030	0.022	U
97380980	WB	Steelhead	56		Klickitat River	0.05	0.0025	0.016	U	0.05	0.025	0.16	U	0.01	0.0010	0.0064	U	0.01	0.0010	0.0064	U
97380990	WB	Steelhead	8	D	Columbia River	0.03	0.0015	0.012	U	0.2	0.10	0.79		0.04	0.0040	0.031	U	0.04	0.0040	0.031	U
97380991	WB	Steelhead	8	E	Columbia River	0.06	0.0030	0.019		0.16	0.080	0.50		0.02	0.0020	0.012	U	0.02	0.0020	0.012	U
97380992	WB	Steelhead	8	F	Columbia River	0.02	0.0010	0.0074	U	0.02	0.010	0.074	U	0.02	0.0020	0.015	U	0.02	0.0020	0.015	U
97380993	FS	Steelhead	8	E	Columbia River	0.04	0.0020	0.022	U	0.04	0.020	0.22	U	0.02	0.0020	0.022	U	0.02	0.0020	0.022	U
97380994	FS	Steelhead	8	H	Columbia River	0.02	0.0010	0.011	U	0.02	0.010	0.11	U	0.02	0.0020	0.022	U	0.02	0.0020	0.022	U
97380995	FS	Steelhead	8	H	Columbia River	0.01	0.00050	0.0074	U	0.01	0.0050	0.074	U	0.01	0.0010	0.015	U	0.01	0.0010	0.015	U
97380999	E	Steelhead	8	E	Columbia River	0.02	0.0010	0.0086	U	0.02	0.010	0.086	U	0.02	0.0020	0.017	U	0.02	0.0020	0.017	U
97390800	FS	Steelhead	56		Klickitat River	0.02	0.0010	0.012	U	0.25	0.13	1.5		0.04	0.0040	0.049	U	0.04	0.0040	0.049	U
97390801	FS	Steelhead	56		Klickitat River	0.03	0.0015	0.015	U	0.24	0.12	1.2		0.01	0.0010	0.010	U	0.01	0.0010	0.010	U
97390802	FS	Steelhead	56		Klickitat River	0.04	0.0020	0.020	U	0.25	0.13	1.2		0.05	0.0050	0.049	U	0.04	0.0040	0.039	U
98064090	FS	Steelhead	8	D	Columbia River	0.03	0.0015	0.034	U	0.24	0.12	2.7		0.03	0.0030	0.068	U	0.03	0.0030	0.068	U
98064091	FS	Steelhead	8	D	Columbia River	0.02	0.0010	0.025	U	0.28	0.14	3.5		0.03	0.0030	0.075		0.03	0.0030	0.075	
98064092	FS	Steelhead	8	F	Columbia River	0.1	0.0050	0.069		0.29	0.15	2.0		0.02	0.0020	0.028	U	0.02	0.0020	0.028	U
98064093	WB	Steelhead	8	D	Columbia River	0.19	0.0095	0.14		0.02	0.010	0.15	U	0.02	0.0020	0.029	U	0.07	0.0070	0.10	
98064094	WB	Steelhead	8	F	Columbia River	0.15	0.0075	0.10		0.37	0.19	2.5		0.04	0.0040	0.053		0.04	0.0040	0.053	
98064095	WB	Steelhead	8	F	Columbia River	0.01	0.00050	0.0060	U	0.01	0.0050	0.060	U	0.04	0.0040	0.048		0.03	0.0030	0.036	U
98124150	WB	Steelhead	48	F	Yakima River	0.1	0.0050	0.23		0.2	0.10	4.6		0.01	0.0010	0.045	U	0.01	0.0010	0.045	U
98124151	WB	Steelhead	48	F	Yakima River	0.14	0.0070	0.24		0.29	0.15	5.0		0.01	0.0010	0.034	U	0.01	0.0010	0.034	U
98124152	WB	Steelhead	48	F	Yakima River	0.02	0.0010	0.045	U	0.02	0.010	0.46	U	0.02	0.0020	0.091		0.02	0.0020	0.091	U
98124153	FS	Steelhead	48	F	Yakima River	0.02	0.0010	0.053	U	0.13	0.065	3.4		0.01	0.0010	0.053	U	0.01	0.0010	0.053	U
98124154	FS	Steelhead	48	F	Yakima River	0.09	0.0045	0.13		0.01	0.0050	0.15	U	0.03	0.0030	0.088		0.01	0.0010	0.029	U
98124155	FS	Steelhead	48	F	Yakima River	0.02	0.0010	0.033	U	0.16	0.080	2.7		0.01	0.0010	0.033	U	0.01	0.0010	0.033	
98144100	WB	Steelhead	25		Hood River	0.03	0.0015	0.056	U	0.37	0.19	6.9		0.02	0.0020	0.074	U	0.05	0.0050	0.19	
98144101	WB	Steelhead	25		Hood River	0.02	0.0010	0.029	U	0.19	0.095	2.7		0.02	0.0020	0.057	U	0.02	0.0020	0.057	U
98144102	WB	Steelhead	25		Hood River	0.02	0.0010	0.021	U	0.13	0.065	1.4		0.01	0.0010	0.021	U	0.01	0.0010	0.021	U
98144103	FS	Steelhead	25		Hood River	0.03	0.0015	0.094		0.07	0.035	2.2		0.03	0.0030	0.19		0.02	0.0020	0.13	
98144104	FS	Steelhead	25		Hood River	0.12	0.0060	0.25		0.32	0.16	6.7		0.03	0.0030	0.13		0.01	0.0010	0.042	
98144105	FS	Steelhead	25		Hood River	0.06	0.0030	0.14		0.02	0.010	0.46	U	0.01	0.0010	0.045	U	0.01	0.0010	0.045	U
96284741	FS	Walleye	30	B	Umatilla River	0.03	0.0015	0.10		0.03	0.015	1.0		0.01	0.0010	0.067	U	0.02	0.0020	0.13	
96284742	FS	Walleye	30	B	Umatilla River	0.03	0.0015	0.10		0.02	0.010	0.67		0.01	0.0010	0.067	U	0.02	0.0020	0.13	
96284743	FS	Walleye	30	B	Umatilla River	0.04	0.0020	0.15		0.04	0.020	1.5		0.01	0.0010	0.077	U	0.03	0.0030	0.23	
96284744	WB	Walleye	30	B	Umatilla River	0.14	0.0070	0.087		0.19	0.095	1.2		0.04	0.0040	0.050		0.05	0.0050	0.063	
97490850	WB	Walleye	7	B	Columbia River	0.15	0.0075	0.11		0.24	0.12	1.7		0.03	0.0030	0.043		0.01	0.0010	0.014	U

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8-PeCDF				2,3,4,7,8-PeCDF				1,2,3,4,7,8-HxCDF				1,2,3,6,7,8-HxCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Lipid Conc	Norm	Qual
ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg lipid	
97490851	WB	Walleye	7	D	Columbia River	0.12	0.0060	0.080		0.2	0.10	1.3		0.03	0.0030	0.040		0.03	0.0030	0.040	
97080811	FW	White Sturgeon	6	C	Columbia River	0.33	0.017	0.34		0.27	0.14	2.8		0.06	0.0060	0.13		0.09	0.0090	0.19	
97080812	FW	White Sturgeon	6	C	Columbia River	0.29	0.015	0.38		0.21	0.11	2.8		0.04	0.0040	0.11		0.06	0.0060	0.16	
97080813	FW	White Sturgeon	6	C	Columbia River	0.17	0.0085	0.57		0.15	0.075	5.0		0.03	0.0030	0.20		0.05	0.0050	0.33	
97080814	FW	White Sturgeon	6	C	Columbia River	0.21	0.011	0.34		0.16	0.080	2.6		0.04	0.0040	0.13		0.05	0.0050	0.16	
97080815	FW	White Sturgeon	7	A	Columbia River	0.19	0.0095	0.18		0.17	0.085	1.6		0.06	0.0060	0.11		0.08	0.0080	0.15	
97080816	FW	White Sturgeon	7	A	Columbia River	0.08	0.0040	0.22		0.06	0.030	1.7		0.02	0.0020	0.11		0.04	0.0040	0.22	
97080817	FW	White Sturgeon	7	A	Columbia River	0.33	0.017	0.22		0.29	0.15	1.9		0.05	0.0050	0.066		0.08	0.0080	0.11	
97080818	FW	White Sturgeon	8	F	Columbia River	0.16	0.0080	0.20		0.13	0.065	1.6		0.03	0.0030	0.073		0.06	0.0060	0.15	
97080819	FW	White Sturgeon	8	F	Columbia River	0.28	0.014	0.14		0.26	0.13	1.3		0.05	0.0050	0.050	U	0.05	0.0050	0.050	
97080820	FW	White Sturgeon	8	F	Columbia River	0.29	0.015	0.16		0.25	0.13	1.4		0.05	0.0050	0.055		0.09	0.0090	0.099	
97130800	WB	White Sturgeon	8	E	Columbia River	0.29	0.015	0.20		0.25	0.13	1.8		0.06	0.0060	0.085		0.1	0.010	0.14	
97130801	WB	White Sturgeon	8	B	Columbia River	0.36	0.018	0.25		0.26	0.13	1.8		0.05	0.0050	0.070		0.02	0.0020	0.028	
97130802	WB	White Sturgeon	8	E	Columbia River	0.33	0.017	0.21		0.35	0.18	2.3		0.04	0.0040	0.052		0.07	0.0070	0.091	
97140800	FW	White Sturgeon	13	E	Snake River	0.13	0.0065	0.10		0.01	0.0050	0.077	U	0.04	0.0040	0.062		0.07	0.0070	0.11	
97140801	FW	White Sturgeon	13	E	Snake River	0.13	0.0065	0.11		0.02	0.010	0.16	U	0.03	0.0030	0.048		0.06	0.0060	0.097	
97320850	FW	White Sturgeon	13	F	Snake River	0.13	0.0065	0.046		0.15	0.075	0.53		0.08	0.0080	0.057		0.07	0.0070	0.050	
97320851	FW	White Sturgeon	13	F	Snake River	0.18	0.0090	0.084		0.04	0.020	0.19	U	0.07	0.0070	0.065		0.05	0.0050	0.047	
97500965	FW	White Sturgeon	9	D	Columbia River	0.28	0.014	0.16		0.28	0.14	1.6		0.05	0.0050	0.057		0.07	0.0070	0.080	
97500966	FW	White Sturgeon	9	B	Columbia River	0.34	0.017	0.23		0.33	0.17	2.3		0.04	0.0040	0.055	U	0.04	0.0040	0.055	
97500967	FW	White Sturgeon	9	B	Columbia River	0.36	0.018	0.23		0.35	0.18	2.3		0.05	0.0050	0.065		0.08	0.0080	0.10	
97500968	FW	White Sturgeon	9	A	Columbia River	0.46	0.023	0.17		0.4	0.20	1.4		0.08	0.0080	0.058		0.11	0.011	0.079	
97500969	WB	White Sturgeon	9	A	Columbia River	0.38	0.019	0.17		0.41	0.21	1.9		0.01	0.0010	0.0090	U	0.09	0.0090	0.081	
97500970	WB	White Sturgeon	9	A	Columbia River	0.27	0.014	0.23		0.22	0.11	1.9		0.04	0.0040	0.068		0.08	0.0080	0.14	
97500971	WB	White Sturgeon	9	A	Columbia River	0.35	0.018	0.23		0.44	0.22	2.9		0.15	0.015	0.20		0.15	0.015	0.20	
98024000	WB	White Sturgeon	9	I	Columbia River	0.47	0.024	0.18		0.53	0.27	2.1		0.12	0.012	0.094		0.05	0.0050	0.039	
98024001	WB	White Sturgeon	9	F	Columbia River	0.12	0.0060	0.10		0.13	0.065	1.1		0.03	0.0030	0.051		0.03	0.0030	0.051	
98024002	FW	White Sturgeon	9	I	Columbia River	0.15	0.0075	0.10		0.23	0.12	1.6		0.03	0.0030	0.041	U	0.03	0.0030	0.041	
98024003	FW	White Sturgeon	9	I	Columbia River	0.16	0.0080	0.11		0.23	0.12	1.6		0.04	0.0040	0.057		0.05	0.0050	0.071	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDF				2,3,4,6,7,8-HxCDF				1,2,3,4,6,7,8-HpCDF				1,2,3,4,7,8,9-HpCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual
ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid		
96294094	WB	Bridgeline Sucker	48	F	Yakima River	0.05	0.0050	0.080		0.14	0.014	0.19		0.01	0.00010	0.0013	U	0.01	0.00010	0.19	U
96294095	WB	Bridgeline Sucker	48	F	Yakima River	0.06	0.0060	0.053		0.15	0.015	0.16		0.12	0.0012	0.013		0.01	0.00010	0.16	U
96294096	WB	Bridgeline Sucker	48	F	Yakima River	0.06	0.0060	0.070		0.13	0.013	0.18		0.11	0.0011	0.015		0.01	0.00010	0.18	U
97500950	WB	Channel Catfish	8	F	Columbia River	0.02	0.0020	0.099	U	0.06	0.0060	0.046		0.03	0.00030	0.0023		0.03	0.00030	0.046	U
97500951	WB	Channel Catfish	8	F	Columbia River	0.01	0.0010	0.083	U	0.01	0.0010	0.069	U	0.01	0.00010	0.0069	U	0.01	0.00010	0.069	U
97500952	WB	Channel Catfish	8	F	Columbia River	0.02	0.0020	0.067	U	0.06	0.0060	0.029		0.02	0.00020	0.0095		0.02	0.00020	0.029	U
97500956	FS	Channel Catfish	8	B	Columbia River	0.02	0.0020	0.083	U	0.05	0.0050	0.024		0.05	0.00050	0.0024		0.05	0.00050	0.024	U
97500957	FS	Channel Catfish	8	C	Columbia River	0.02	0.0020	0.11	U	0.05	0.0050	0.040		0.02	0.00020	0.0016		0.02	0.00020	0.040	U
97420931	WB	Coho	30		Umatilla River	0.01	0.0010	0.074	U	0.01	0.0010	0.037	U	0.01	0.00010	0.037	U	0.01	0.00010	0.037	U
97420932	WB	Coho	30		Umatilla River	0.02	0.0020	0.041	U	0.02	0.0020	0.041	U	0.03	0.00030	0.0061	U	0.03	0.00030	0.041	U
97420933	WB	Coho	30		Umatilla River	0.02	0.0020	0.047	U	0.02	0.0020	0.047	U	0.03	0.00030	0.0070	U	0.03	0.00030	0.047	U
97450966	FS	Coho	30		Umatilla River	0.01	0.0010	0.12	U	0.01	0.0010	0.038	U	0.01	0.00010	0.038	U	0.01	0.00010	0.038	U
97450967	FS	Coho	30		Umatilla River	0.01	0.0010	0.045	U	0.01	0.0010	0.045	U	0.05	0.00050	0.023		0.01	0.00010	0.045	U
97450968	FS	Coho	30		Umatilla River	0.01	0.0010	0.048	U	0.01	0.0010	0.048	U	0.03	0.00030	0.014		0.01	0.00010	0.048	U
97450970	E	Coho	30		Umatilla River	0.03	0.0030	0.012		0.04	0.0040	0.048		0.01	0.00010	0.0012	U	0.04	0.00040	0.048	
97450971	E	Coho	30		Umatilla River	0.03	0.0030	0.012	U	0.01	0.0010	0.012	U	0.19	0.0019	0.023		0.05	0.00050	0.012	
97450972	E	Coho	30		Umatilla River	0.01	0.0010	0.012	U	0.01	0.0010	0.012	U	0.01	0.00010	0.0012	U	0.01	0.00010	0.012	U
97070800	WB	Eulachon	3	B	Columbia River	0.2	0.020	0.14		0.2	0.020	0.16		0.26	0.0026	0.021		0.11	0.0011	0.16	
97070801	WB	Eulachon	3	B	Columbia River	0.07	0.0070	0.075		0.15	0.015	0.11		0.01	0.00010	0.0075	U	0.02	0.00020	0.11	
97070802	WB	Eulachon	3	B	Columbia River	0.15	0.015	0.077		0.21	0.021	0.16		0.24	0.0024	0.018		0.09	0.00090	0.16	U
97380975	WB	Fall Chinook	56		Klickitat River	0.01	0.0010	0.019	U	0.01	0.0010	0.0097	U	0.01	0.00010	0.0097	U	0.01	0.00010	0.0097	U
97380976	WB	Fall Chinook	56		Klickitat River	0.02	0.0020	0.020	U	0.02	0.0020	0.020	U	0.02	0.00020	0.020	U	0.02	0.00020	0.020	U
97380977	WB	Fall Chinook	56		Klickitat River	0.03	0.0030	0.010	U	0.03	0.0030	0.031	U	0.02	0.00020	0.020	U	0.02	0.00020	0.031	U
97380981	FS	Fall Chinook	56		Klickitat River	0.02	0.0020	0.012	U	0.02	0.0020	0.024	U	0.01	0.00010	0.0012	U	0.01	0.00010	0.024	U
97380982	FS	Fall Chinook	56		Klickitat River	0.02	0.0020	0.019	U	0.02	0.0020	0.019	U	0.03	0.00030	0.0028	U	0.03	0.00030	0.019	U
97380983	FS	Fall Chinook	56		Klickitat River	0.02	0.0020	0.029	U	0.02	0.0020	0.029	U	0.01	0.00010	0.0015	U	0.01	0.00010	0.029	U
97380984	WB	Fall Chinook	8	G	Columbia River	0.03	0.0030	0.033	U	0.03	0.0030	0.025	U	0.03	0.00030	0.0025	U	0.03	0.00030	0.025	U
97380985	WB	Fall Chinook	8	G	Columbia River	0.05	0.0050	0.036	U	0.05	0.0050	0.045	U	0.02	0.00020	0.0018	U	0.02	0.00020	0.045	U
97380986	WB	Fall Chinook	8	G	Columbia River	0.04	0.0040	0.029	U	0.04	0.0040	0.038	U	0.03	0.00030	0.0029	U	0.03	0.00030	0.038	U
97380987	FS	Fall Chinook	8	G	Columbia River	0.01	0.0010	0.0096	U	0.01	0.0010	0.0096	U	0.01	0.00010	0.0096	U	0.01	0.00010	0.0096	U
97380988	FS	Fall Chinook	8	D	Columbia River	0.04	0.0040	0.0099	U	0.04	0.0040	0.040	U	0.01	0.00010	0.0099	U	0.01	0.00010	0.040	U
97380989	FS	Fall Chinook	8	D	Columbia River	0.01	0.0010	0.011	U	0.01	0.0010	0.011	U	0.02	0.00020	0.0021	U	0.02	0.00020	0.011	U
97380997	FS	Fall Chinook	8	D	Columbia River	0.01	0.0010	0.021	U	0.01	0.0010	0.010	U	0.01	0.00010	0.0010	U	0.01	0.00010	0.010	U
97380998	E	Fall Chinook	8	D	Columbia River	0.02	0.0020	0.067	U	0.02	0.0020	0.013	U	0.02	0.00020	0.0013	U	0.02	0.00020	0.013	U
97400925	WB	Fall Chinook	14		Columbia River	0.02	0.0020	0.023	U	0.02	0.0020	0.023	U	0.02	0.00020	0.0023	U	0.02	0.00020	0.023	U
97400926	WB	Fall Chinook	14		Columbia River	0.02	0.0020	0.041	U	0.02	0.0020	0.027	U	0.01	0.00010	0.0014	U	0.01	0.00010	0.027	U
97400927	WB	Fall Chinook	14		Columbia River	0.01	0.0010	0.013	U	0.01	0.0010	0.013	U	0.01	0.00010	0.013	U	0.01	0.00010	0.013	U
97400928	FS	Fall Chinook	14		Columbia River	0.02	0.0020	0.043	U	0.02	0.0020	0.029	U	0.02	0.00020	0.0029	U	0.02	0.00020	0.029	U
97400929	FS	Fall Chinook	14		Columbia River	0.04	0.0040	0.091	U	0.04	0.0040	0.073	U	0.02	0.00020	0.0036	U	0.02	0.00020	0.073	U
97400930	FS	Fall Chinook	14		Columbia River	0.02	0.0020	0.029	U	0.02	0.0020	0.029	U	0.02	0.00020	0.0029	U	0.02	0.00020	0.029	U
97420925	WB	Fall Chinook	30		Umatilla River	0.01	0.0010	0.033	U	0.01	0.0010	0.017	U	0.01	0.00010	0.017	U	0.01	0.00010	0.017	U
97420926	WB	Fall Chinook	30		Umatilla River	0.01	0.0010	0.018	U	0.01	0.0010	0.018	U	0.01	0.00010	0.018	U	0.01	0.00010	0.018	U
97420927	WB	Fall Chinook	30		Umatilla River	0.01	0.0010	0.017	U	0.01	0.0010	0.017	U	0.01	0.00010	0.0017	U	0.01	0.00010	0.017	U
97420928	FS	Fall Chinook	30		Umatilla River	0.02	0.0020	0.083	U	0.02	0.0020	0.056	U	0.01	0.00010	0.028	U	0.01	0.00010	0.056	U
97420929	FS	Fall Chinook	30		Umatilla River	0.01	0.0010	0.029	U	0.01	0.0010	0.029	U	0.01	0.00010	0.029	U	0.01	0.00010	0.029	U
97420930	FS	Fall Chinook	30		Umatilla River	0.01	0.0010	0.083	U	0.01	0.0010	0.042	U	0.01	0.00010	0.042	U	0.01	0.00010	0.042	U
97420934	WB	Fall Chinook	48	F	Yakima River	0.02	0.0020	0.031	U	0.02	0.0020	0.031	U	0.02	0.00020	0.0031	U	0.02	0.00020	0.031	U
97420935	WB	Fall Chinook	48	F	Yakima River	0.03	0.0030	0.070	U	0.03	0.0030	0.053	U	0.03	0.00030	0.053	U	0.03	0.00030	0.053	U
97420936	WB	Fall Chinook	48	F	Yakima River	0.02	0.0020	0.027	U	0.02	0.0020	0.027	U	0.12	0.0012	0.016		0.02	0.00020	0.027	U
97420937	FS	Fall Chinook	48	F	Yakima River	0.04	0.0040	0.20	U	0.04	0.0040	0.11	U	0.07	0.00070	0.020	U	0.07	0.00070	0.11	U
97420938	FS	Fall Chinook	48	F	Yakima River	0.04	0.0040	0.097	U	0.04	0.0040	0.13	U	0.02	0.00020</						

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDF				2,3,4,6,7,8-HxCDF				1,2,3,4,6,7,8-HpCDF				1,2,3,4,7,8,9-HpCDF			
						TEQ				TEQ				TEQ				TEQ			
						Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual	Conc	TEQ Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg	
97420939	FS	Fall Chinook	48	F	Yakima River	0.06	0.0060	0.12	U	0.06	0.0060	0.12	U	0.03	0.00030	0.0059	U	0.03	0.00030	0.12	U
97420940	FS	Fall Chinook	48	F	Yakima River	0.04	0.0040	0.11	U	0.04	0.0040	0.11	U	0.03	0.00030	0.0086	U	0.03	0.00030	0.11	U
96284795	WB	Largescaler Sucker	30	A	Umatilla River	0.07	0.0070	0.14		0.14	0.014	0.40		0.1	0.0010	0.029		0.01	0.00010	0.40	
96284796	WB	Largescaler Sucker	30	A	Umatilla River	0.05	0.0050	0.086		0.12	0.012	0.34		0.06	0.00060	0.017		0.01	0.00010	0.34	
96284797	WB	Largescaler Sucker	30	A	Umatilla River	0.08	0.0080	0.12		0.15	0.015	0.35		0.1	0.0010	0.023		0.01	0.00010	0.35	
96284798	FS	Largescaler Sucker	30	A	Umatilla River	0.01	0.0010	0.083	U	0.01	0.0010	0.083	U	0.01	0.00010	0.0083	U	0.01	0.00010	0.083	U
96294091	WB	Largescaler Sucker	48	F	Yakima River	0.05	0.0050	0.12		0.14	0.014	0.27		0.12	0.0012	0.023		0.01	0.00010	0.27	
96294092	WB	Largescaler Sucker	48	F	Yakima River	0.06	0.0060	0.11		0.14	0.014	0.40		0.09	0.00090	0.026		0.01	0.00010	0.40	
96294093	WB	Largescaler Sucker	48	F	Yakima River	0.05	0.0050	0.18		0.14	0.014	0.36		0.12	0.0012	0.031		0.01	0.00010	0.36	
96374700	FS	Largescaler Sucker	30	A	Umatilla River	0.17	0.017	0.67		0.21	0.021	1.8		0.16	0.0016	0.13		0.13	0.0013	1.8	
96374701	FS	Largescaler Sucker	30	A	Umatilla River	0.09	0.0090	0.071		0.16	0.016	1.1		0.11	0.0011	0.079		0.01	0.00010	1.1	
96374702	FS	Largescaler Sucker	30	A	Umatilla River	0.08	0.0080	0.31		0.15	0.015	0.94		0.1	0.0010	0.063		0.01	0.00010	0.94	
96374793	WB	Largescaler Sucker	49		Yakima River	0.06	0.0060	0.021		0.15	0.015	0.32		0.08	0.00080	0.017		0.01	0.00010	0.32	
96374794	WB	Largescaler Sucker	49		Yakima River	0.06	0.0060	0.037		0.15	0.015	0.19		0.08	0.00080	0.01		0.01	0.00010	0.19	
96374795	WB	Largescaler Sucker	49		Yakima River	0.06	0.0060	0.048		0.15	0.015	0.24		0.07	0.00070	0.011		0.01	0.00010	0.24	
96374796	FS	Largescaler Sucker	49		Yakima River	0.01	0.0010	0.20	U	0.15	0.015	0.60		0.1	0.0010	0.040		0.01	0.00010	0.60	
96374797	FS	Largescaler Sucker	49		Yakima River	0.06	0.0060	0.067		0.13	0.013	0.43		0.02	0.00020	0.0067	U	0.02	0.00020	0.43	
96374798	FS	Largescaler Sucker	49		Yakima River	0.2	0.020	0.087		0.23	0.023	1.0		0.19	0.0019	0.083		0.19	0.0019	1.0	
97080800	WB	Largescaler Sucker	98	D	Deschutes River	0.02	0.0020	0.037	U	0.17	0.017	0.21		0.11	0.0011	0.014		0.04	0.00040	0.21	
97080801	WB	Largescaler Sucker	98	C	Deschutes River	0.01	0.0010	0.071	U	0.15	0.015	0.21		0.09	0.00090	0.013		0.03	0.00030	0.21	
97080802	WB	Largescaler Sucker	98	B	Deschutes River	0.01	0.0010	0.048	U	0.15	0.015	0.14		0.09	0.00090	0.0087		0.03	0.00030	0.14	
97080824	FS	Largescaler Sucker	98	E	Deschutes River	0.1	0.010	0.34		0.14	0.014	0.44		0.13	0.0013	0.041	U	0.13	0.0013	0.44	
97080825	FS	Largescaler Sucker	98	C	Deschutes River	0.08	0.0080	0.23	U	0.08	0.0080	0.23	U	0.07	0.00070	0.020		0.07	0.00070	0.23	
97080990	FS	Largescaler Sucker	98	A	Deschutes River	0.12	0.012	0.16		0.15	0.015	0.34		0.07	0.00070	0.016		0.04	0.00040	0.34	
97304975	WB	Largescaler Sucker	9	E	Columbia River	0.01	0.0010	0.051	U	0.01	0.0010	0.026	U	0.03	0.00030	0.0077		0.02	0.00020	0.026	
97304976	WB	Largescaler Sucker	9	E	Columbia River	0.02	0.0020	0.031	U	0.02	0.0020	0.062	U	0.01	0.00010	0.0031	U	0.01	0.00010	0.062	
97304977	WB	Largescaler Sucker	9	F	Columbia River	0.01	0.0010	0.042	U	0.01	0.0010	0.042	U	0.03	0.00030	0.012		0.01	0.00010	0.042	
97304978	FS	Largescaler Sucker	9	F	Columbia River	0.01	0.0010	0.11	U	0.01	0.0010	0.053	U	0.02	0.00020	0.011	U	0.02	0.00020	0.053	
97304979	FS	Largescaler Sucker	9	H	Columbia River	0.02	0.0020	0.26		0.01	0.0010	0.053	U	0.06	0.00060	0.032		0.02	0.00020	0.053	
97304980	FS	Largescaler Sucker	9	H	Columbia River	0.01	0.0010	0.21	U	0.01	0.0010	0.071	U	0.01	0.00010	0.0071	U	0.01	0.00010	0.071	
97500953	WB	Largescaler Sucker	8	F	Columbia River	0.02	0.0020	0.031	U	0.02	0.0020	0.031	U	0.02	0.00020	0.0031	U	0.02	0.00020	0.031	
97500954	WB	Largescaler Sucker	8	I	Columbia River	0.01	0.0010	0.046	U	0.01	0.0010	0.015		0.06	0.00060	0.0092		0.01	0.00010	0.015	
98164075	WB	Largescaler Sucker	48	H	Yakima River	0.01	0.0010	0.016	U	0.01	0.0010	0.016	U	0.01	0.00010	0.0016	U	0.01	0.00010	0.016	
98164076	WB	Largescaler Sucker	48	H	Yakima River	0.01	0.0010	0.062	U	0.01	0.0010	0.021	U	0.08	0.00080	0.017		0.03	0.00030	0.021	
98164077	WB	Largescaler Sucker	48	J	Yakima River	0.01	0.0010	0.024	U	0.01	0.0010	0.024	U	0.05	0.00050	0.012	U	0.05	0.00050	0.024	
98164078	FS	Largescaler Sucker	48	J	Yakima River	0.04	0.0040	0.14	U	0.04	0.0040	0.14	U	0.05	0.00050	0.018	U	0.05	0.00050	0.14	
98164079	FS	Largescaler Sucker	48	I	Yakima River	0.02	0.0020	0.14	U	0.02	0.0020	0.095	U	0.03	0.00030	0.014	U	0.03	0.00030	0.095	
98164080	FS	Largescaler Sucker	48	I	Yakima River	0.01	0.0010	0.029	U	0.01	0.0010	0.029	U	0.02	0.00020	0.0057	U	0.02	0.00020	0.029	
98184125	WB	Largescaler Sucker	13	E	Snake River	0.04	0.0040	0.040		0.04	0.0040	0.080		0.05	0.00050	0.01		0.05	0.00050	0.080	
98184126	WB	Largescaler Sucker	13	E	Snake River	0.01	0.0010	0.11	U	0.01	0.0010	0.037	U	0.01	0.00010	0.0037	U	0.01	0.00010	0.037	
98184127	WB	Largescaler Sucker	13	C	Snake River	0.02	0.0020	0.056	U	0.02	0.0020	0.056	U	0.02	0.00020	0.0056	U	0.02	0.00020	0.056	
98184128	FS	Largescaler Sucker	13	C	Snake River	0.01	0.0010	0.10		0.01	0.0010	0.050	U	0.02	0.00020	0.01	U	0.02	0.00020	0.050	
98184129	FS	Largescaler Sucker	13	D	Snake River	0.01	0.0010	0.12	U	0.01	0.0010	0.059	U	0.02	0.00020	0.012	U	0.02	0.00020	0.059	
98184130	FS	Largescaler Sucker	13	D	Snake River	0.01	0.0010	0.071	U	0.01	0.0010	0.071	U	0.02	0.00020	0.014	U	0.02	0.00020	0.071	
96284904	WB	Mountain Whitefish	101		Umatilla River	0.01	0.0010	0.062	U	0.14	0.014	0.14		0.09	0.00090	0.0093		0.01	0.00010	0.14	
96284905	WB	Mountain Whitefish	101	A	Umatilla River	0.06	0.0060	0.043		0.13	0.013	0.11		0.09	0.00090	0.0078		0.01	0.00010	0.11	
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	0.01	0.0010	0.046	U	0.14	0.014	0.13		0.08	0.00080	0.0074		0.02	0.00020	0.13	
96284907	FS	Mountain Whitefish	101	A	Umatilla River	0.06	0.0060	0.083		0.14	0.014	0.23		0.09	0.00090	0.015		0.01	0.00010	0.23	
96284908	FS	Mountain Whitefish	101	A	Umatilla River	0.06	0.0060	0.054		0.13	0.013	0.23		0.07	0.00070	0.013		0.01	0.00010	0.23	
96284909	FS	Mountain Whitefish	101		Umatilla River	0.06	0.0060	0.048		0.13	0.013	0.21		0.01	0.00010	0.016	U	0.01	0.00010	0.21	U
97080804	WB	Mountain Whitefish	98	D	Deschutes River	0.07	0.0070	0.19		0.13	0.013	0.30		0.1	0.0010	0.023		0.02	0.00020	0.30	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDF				2,3,4,6,7,8-HxCDF				1,2,3,4,6,7,8-HpCDF				1,2,3,4,7,8,9-HpCDF					
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ					
						Conc	Lipid Conc	Conc	Lipid Norm	Qual	Conc	Lipid Conc	Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	
						ng/kg	ng/kg	ng/kg	ng/kg	lipid	ng/kg	ng/kg	ng/kg	lipid	ng/kg	ng/kg	ng/kg	lipid	ng/kg	ng/kg	ng/kg	lipid	
97080805	WB	Mountain Whitefish	98	C	Deschutes River	0.15	0.015	0.20	0.17	0.017	0.38	0.1	0.0010	0.022	0.08	0.00080	0.38	U					
97080806	WB	Mountain Whitefish	98	B	Deschutes River	0.11	0.011	0.14	0.17	0.017	0.33	0.06	0.00060	0.012	0.06	0.00060	0.33	U					
97080807	FS	Mountain Whitefish	98	A	Deschutes River	0.16	0.016	0.42	0.17	0.017	0.71	0.09	0.00090	0.038	0.06	0.00060	0.71						
97080808	FS	Mountain Whitefish	98	A	Deschutes River	0.13	0.013	0.46	0.15	0.015	0.58	0.09	0.00090	0.035	0.06	0.00060	0.58						
97080809	FS	Mountain Whitefish	98	B	Deschutes River	0.08	0.0080	0.50	0.14	0.014	1.2	0.07	0.00070	0.058	0.02	0.00020	1.2						
97080810	FS	Mountain Whitefish	98	A	Deschutes River	0.11	0.011	0.31	0.15	0.015	0.52	0.11	0.0011	0.038	0.04	0.00040	0.52						
97470990	WB	Mountain Whitefish	9	Q	Columbia River	0.01	0.0010	0.14	U	0.04	0.0040	0.049	0.01	0.00010	0.0012	U	0.04	0.00040	0.049				
97470991	WB	Mountain Whitefish	9	Q	Columbia River	0.02	0.0020	0.053	U	0.07	0.0070	0.074	0.13	0.0013	0.014	U	0.13	0.0013	0.074	U			
97470992	WB	Mountain Whitefish	9	P	Columbia River	0.02	0.0020	0.025	0.03	0.0030	0.037	0.02	0.00020	0.0025	U	0.02	0.00020	0.037	U				
97470993	FS	Mountain Whitefish	9	O	Columbia River	0.02	0.0020	0.087	0.01	0.0010	0.014	U	0.02	0.00020	0.0029	U	0.02	0.00020	0.014	U			
97470994	FS	Mountain Whitefish	9	O	Columbia River	0.01	0.0010	0.013	U	0.01	0.0010	0.013	U	0.03	0.00030	0.0039	U	0.03	0.00030	0.013	U		
97470995	FS	Mountain Whitefish	9	N	Columbia River	0.01	0.0010	0.081	U	0.01	0.0010	0.014	U	0.02	0.00020	0.0027	U	0.02	0.00020	0.014	U		
98124160	WB	Mountain Whitefish	48	F	Yakima River	0.03	0.0030	0.064	U	0.03	0.0030	0.032	0.08	0.00080	0.0085	U	0.08	0.00080	0.032	U			
98124161	WB	Mountain Whitefish	48	F	Yakima River	0.02	0.0020	0.11	U	0.05	0.0050	0.062	0.04	0.00040	0.0049	U	0.04	0.00040	0.062	U			
98124162	WB	Mountain Whitefish	48	F	Yakima River	0.01	0.0010	0.096	U	0.03	0.0030	0.029	0.03	0.00030	0.0029	U	0.03	0.00030	0.029	U			
98124165	FS	Mountain Whitefish	48	F	Yakima River	0.02	0.0020	0.083	U	0.02	0.0020	0.024	U	0.1	0.0010	0.012	0.1	0.0010	0.024	U			
98124166	FS	Mountain Whitefish	48	F	Yakima River	0.06	0.0060	0.039	U	0.06	0.0060	0.078	U	0.07	0.00070	0.0091	U	0.07	0.00070	0.078	U		
98124167	FS	Mountain Whitefish	48	F	Yakima River	0.02	0.0020	0.012	U	0.04	0.0040	0.047	0.02	0.00020	0.0023	U	0.02	0.00020	0.047	U			
96254770	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.0047	0.01	0.0010	0.0047	U	0.01	0.00010	0.0047	U	0.01	0.00010	0.0047	U			
96254771	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.031	0.19	0.019	0.097	0.09	0.00090	0.0046	U	0.02	0.00020	0.097					
96254772	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.032	0.19	0.019	0.10	0.09	0.00090	0.0048	U	0.01	0.00010	0.10					
97220910	WB	Pacific lamprey	21		Willamette River	0.06	0.0060	0.041	0.17	0.017	0.12	0.02	0.00020	0.0014	U	0.02	0.00020	0.12	U				
97220911	WB	Pacific lamprey	21		Willamette River	0.02	0.0020	0.017	U	0.02	0.0020	0.011	U	0.04	0.00040	0.0022	U	0.04	0.00040	0.011	U		
97220912	WB	Pacific lamprey	21		Willamette River	0.03	0.0030	0.016	U	0.03	0.0030	0.016	U	0.06	0.00060	0.0033	U	0.06	0.00060	0.016	U		
97220915	FS	Pacific lamprey	21		Willamette River	0.05	0.0050	0.036	0.2	0.020	0.10	0.01	0.0010	0.0051	U	0.01	0.00010	0.10					
97220916	FS	Pacific lamprey	21		Willamette River	0.06	0.0060	0.027	0.2	0.020	0.11	0.02	0.00020	0.0011	U	0.02	0.00020	0.11					
97220917	FS	Pacific lamprey	21		Willamette River	0.04	0.0040	0.018	U	0.08	0.0080	0.037	0.07	0.00070	0.0032	U	0.07	0.00070	0.037	U			
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	0.02	0.0020	0.011	U	0.1	0.010	0.057	0.07	0.00070	0.0040	U	0.01	0.00010	0.057	U			
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	0.07	0.0070	0.038	U	0.15	0.015	0.081	0.1	0.0010	0.0054	U	0.02	0.00020	0.081	U			
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	0.03	0.0030	0.011	U	0.1	0.010	0.053	0.09	0.00090	0.0047	U	0.03	0.00030	0.053				
96284845	WB	Rainbow Trout	101		Umatilla River	0.06	0.0060	0.083	0.13	0.013	0.27	0.07	0.00070	0.015	U	0.02	0.00020	0.27					
96284846	WB	Rainbow Trout	101	B	Thomas Creek	0.06	0.0060	0.089	0.13	0.013	0.29	0.01	0.00010	0.0022	U	0.01	0.00010	0.29	U				
96284990	WB	Rainbow Trout	101	C	Meacham Creek	0.07	0.0070	0.18	0.14	0.014	0.50	0.07	0.00070	0.025	U	0.02	0.00020	0.50					
96284991	WB	Rainbow Trout	101	C	Meacham Creek	0.01	0.0010	0.18	U	0.16	0.016	0.49	0.08	0.00080	0.024	U	0.04	0.00040	0.49				
96374730	FS	Rainbow Trout	49		Yakima River	0.08	0.0080	0.029	0.15	0.015	0.44	0.09	0.00090	0.026	U	0.02	0.00020	0.44	U				
96374731	FS	Rainbow Trout	49		Yakima River	0.38	0.038	1.0	0.36	0.036	1.1	0.35	0.0035	0.11	U	0.34	0.0034	1.1					
96374732	FS	Rainbow Trout	49		Yakima River	0.01	0.0010	0.11	U	0.15	0.015	0.41	0.08	0.00080	0.022	U	0.03	0.00030	0.41	U			
96374765	WB	Rainbow Trout	49		Yakima River	0.09	0.0090	0.088	0.21	0.021	0.31	0.03	0.00030	0.0044	U	0.03	0.00030	0.31	U				
96374766	WB	Rainbow Trout	49		Yakima River	0.08	0.0080	0.086	0.16	0.016	0.28	0.08	0.00080	0.014	U	0.01	0.00010	0.28	U				
96374767	WB	Rainbow Trout	49		Yakima River	0.07	0.0070	0.017	0.16	0.016	0.28	0.08	0.00080	0.014	U	0.02	0.00020	0.28	U				
97080803	WB	Rainbow Trout	98	A	Deschutes River	0.09	0.0090	0.21	0.16	0.016	0.33	0.08	0.00080	0.017	U	0.03	0.00030	0.33					
97080821	WB	Rainbow Trout	98	E	Deschutes River	0.12	0.012	0.23	U	0.12	0.012	0.28	U	0.09	0.00090	0.021	U	0.09	0.00090	0.28	U		
97080822	WB	Rainbow Trout	98	D	Deschutes River	0.08	0.0080	0.17	0.13	0.013	0.31	0.07	0.00070	0.017	U	0.01	0.00010	0.31	U				
97080823	FS	Rainbow Trout	98	B	Deschutes River	0.05	0.0050	0.19	U	0.19	0.019	0.59	0.07	0.00070	0.022	U	0.07	0.00070	0.59	U			
97170950	FS	Rainbow Trout	98	E	Deschutes River	0.06	0.0060	0.11	0.14	0.014	0.40	0.15	0.0015	0.043	U	0.02	0.00020	0.40	U				
97170951	FS	Rainbow Trout	98	D	Deschutes River	0.01	0.0010	0.23	U	0.14	0.014	0.45	0.08	0.00080	0.026	U	0.02	0.00020	0.45	U			
97170952	FS	Rainbow Trout	98	C	Deschutes River	0.06	0.0060	0.16	0.14	0.014	0.44	0.07	0.00070	0.022	U	0.01	0.00010	0.44	U				
97330975	WB	Rainbow Trout	56	B	Klickitat River	0.01	0.0010	0.048	U	0.01	0.0010	0.016	U	0.02	0.00020	0.0032	U	0.02	0.00020	0.016	U		
97330976	WB	Rainbow Trout	56	F	Klickitat River	0.03	0.0030	0.068	U	0.03	0.0030	0.041	U	0.03	0.00030	0.0041	U	0.03	0.00030	0.041	U		
97200840	WB	Spring Chinook	30		Umatilla River	0.03	0.0030	0.023	U	0.16	0.016	0.094	0.09	0.00090	0.0053	U	0.03	0.00030	0.094	U			

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDF				2,3,4,6,7,8-HxCDF				1,2,3,4,6,7,8-HpCDF				1,2,3,4,7,8,9-HpCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97200842	WB	Spring Chinook	30		Umatilla River	0.07	0.0070	0.033		0.15	0.015	0.098		0.09	0.00090	0.0059		0.03	0.00030	0.098	U
97200843	FS	Spring Chinook	30		Umatilla River	0.06	0.0060	0.025		0.13	0.013	0.082		0.08	0.00080	0.0051		0.03	0.00030	0.082	U
97200844	FS	Spring Chinook	30		Umatilla River	0.02	0.0020	0.045	U	0.16	0.016	0.12		0.2	0.0020	0.015		0.03	0.00030	0.12	U
97200845	FS	Spring Chinook	30		Umatilla River	0.07	0.0070	0.026		0.14	0.014	0.092		0.05	0.00050	0.0033	U	0.05	0.00050	0.092	U
97200846	E	Spring Chinook	30		Umatilla River	0.03	0.0030	0.027	U	0.14	0.014	0.077		0.03	0.00030	0.0016	U	0.03	0.00030	0.077	U
97200847	E	Spring Chinook	30		Umatilla River	0.01	0.0010	0.016	U	0.13	0.013	0.069		0.03	0.00030	0.0016	U	0.03	0.00030	0.069	U
97200848	E	Spring Chinook	30		Umatilla River	0.04	0.0040	0.016	U	0.14	0.014	0.076		0.06	0.00060	0.0033		0.02	0.00020	0.076	U
97220900	WB	Spring Chinook	48	G	Yakima River	0.01	0.0010	0.027	U	0.14	0.014	0.095		0.07	0.00070	0.0047		0.02	0.00020	0.095	U
97220901	WB	Spring Chinook	48	G	Yakima River	0.02	0.0020	0.037	U	0.34	0.034	0.25		0.2	0.0020	0.015		0.03	0.00030	0.25	U
97220902	WB	Spring Chinook	48	G	Yakima River	0.02	0.0020	0.020	U	0.03	0.0030	0.020		0.04	0.00040	0.0027	U	0.04	0.00040	0.020	U
97220903	FS	Spring Chinook	48	G	Yakima River	0.02	0.0020	0.025	U	0.02	0.0020	0.017	U	0.04	0.00040	0.0034	U	0.04	0.00040	0.017	U
97220904	FS	Spring Chinook	48	G	Yakima River	0.02	0.0020	0.028	U	0.03	0.0030	0.028		0.05	0.00050	0.0046	U	0.05	0.00050	0.028	U
97220905	FS	Spring Chinook	48	G	Yakima River	0.02	0.0020	0.026	U	0.02	0.0020	0.013	U	0.04	0.00040	0.0026	U	0.04	0.00040	0.013	U
97250800	WB	Spring Chinook	94		Looking Glass Creek	0.02	0.0020	0.0080	U	0.02	0.0020	0.016	U	0.02	0.00020	0.0016	U	0.02	0.00020	0.016	U
97250801	WB	Spring Chinook	94		Looking Glass Creek	0.02	0.0020	0.035	U	0.02	0.0020	0.014	U	0.03	0.00030	0.0021		0.01	0.00010	0.014	U
97250802	WB	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.037	U	0.03	0.0030	0.022		0.02	0.00020	0.0015	U	0.02	0.00020	0.022	U
97250803	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.028	U	0.01	0.0010	0.0093	U	0.01	0.00010	0.0093	U	0.01	0.00010	0.0093	U
97250804	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.037	U	0.01	0.0010	0.0092	U	0.02	0.00020	0.0018		0.01	0.00010	0.0092	U
97250805	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.031	U	0.06	0.0060	0.047		0.04	0.00040	0.0031		0.01	0.00010	0.047	U
97250806	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.0083	U	0.08	0.0080	0.066		0.02	0.00020	0.0017	U	0.02	0.00020	0.066	U
97250807	E	Spring Chinook	94		Looking Glass Creek	0.19	0.019	0.032	U	0.19	0.019	0.10	U	0.09	0.00090	0.0048	U	0.09	0.00090	0.10	U
97250808	E	Spring Chinook	94		Looking Glass Creek	0.01	0.0010	0.020	U	0.03	0.0030	0.015		0.05	0.00050	0.0026		0.01	0.00010	0.015	U
97250809	E	Spring Chinook	94		Looking Glass Creek	0.02	0.0020	0.0055	U	0.02	0.0020	0.011	U	0.02	0.00020	0.0011	U	0.02	0.00020	0.011	U
97250811	WB	Spring Chinook	51		Icicle Creek	0.05	0.0050	0.054	U	0.05	0.0050	0.045	U	0.09	0.00090	0.0080	U	0.09	0.00090	0.045	U
97250812	WB	Spring Chinook	51		Icicle Creek	0.08	0.0080	0.10		0.08	0.0080	0.068		0.08	0.00080	0.0068		0.07	0.00070	0.068	
97250813	WB	Spring Chinook	51		Icicle Creek	0.08	0.0080	0.079		0.02	0.0020	0.020	U	0.09	0.00090	0.0089		0.08	0.00080	0.020	
97250814	FS	Spring Chinook	51		Icicle Creek	0.06	0.0060	0.011		0.13	0.013	0.14		0.05	0.00050	0.0054		0.08	0.00080	0.14	
97250815	FS	Spring Chinook	51		Icicle Creek	0.02	0.0020	0.011	U	0.02	0.0020	0.023	U	0.04	0.00040	0.0045		0.03	0.00030	0.023	
97250816	FS	Spring Chinook	51		Icicle Creek	0.02	0.0020	0.068	U	0.06	0.0060	0.068		0.03	0.00030	0.0034	U	0.03	0.00030	0.068	U
97250820	WB	Spring Chinook	63		Wind River	0.01	0.0010	0.0098	U	0.01	0.0010	0.0098	U	0.01	0.00010	0.0098	U	0.01	0.00010	0.0098	U
97250821	WB	Spring Chinook	63		Wind River	0.01	0.0010	0.024	U	0.03	0.0030	0.024		0.03	0.00030	0.0024		0.01	0.00010	0.024	U
97250822	WB	Spring Chinook	63		Wind River	0.01	0.0010	0.034	U	0.01	0.0010	0.0085	U	0.02	0.00020	0.0017	U	0.02	0.00020	0.0085	U
97250823	FS	Spring Chinook	63		Wind River	0.01	0.0010	0.028	U	0.01	0.0010	0.014	U	0.04	0.00040	0.0056		0.04	0.00040	0.014	U
97250824	FS	Spring Chinook	63		Wind River	0.01	0.0010	0.042	U	0.04	0.0040	0.042		0.02	0.00020	0.0021		0.01	0.00010	0.042	U
97250825	FS	Spring Chinook	63		Wind River	0.06	0.0060	0.042	U	0.06	0.0060	0.062	U	0.07	0.00070	0.0073	U	0.07	0.00070	0.062	U
97260975	WB	Spring Chinook	62		Little White Salmon River	0.05	0.0050	0.031		0.05	0.0050	0.038	U	0.04	0.00040	0.0031	U	0.04	0.00040	0.038	U
97260976	WB	Spring Chinook	62		Little White Salmon River	0.06	0.0060	0.028	U	0.06	0.0060	0.055	U	0.03	0.00030	0.0028	U	0.03	0.00030	0.055	U
97260977	WB	Spring Chinook	62		Little White Salmon River	0.02	0.0020	0.055		0.03	0.0030	0.027		0.04	0.00040	0.0036		0.01	0.00010	0.027	U
97260978	FS	Spring Chinook	62		Little White Salmon River	0.02	0.0020	0.032	U	0.02	0.0020	0.022	U	0.02	0.00020	0.0022		0.02	0.00020	0.022	U
97260979	FS	Spring Chinook	62		Little White Salmon River	0.02	0.0020	0.0091	U	0.02	0.0020	0.018	U	0.02	0.00020	0.0018		0.02	0.00020	0.018	U
97260980	FS	Spring Chinook	62		Little White Salmon River	0.01	0.0010	0.041	U	0.04	0.0040	0.041		0.01	0.00010	0.010	U	0.01	0.00010	0.041	U
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.01	0.0010	0.099	U	0.02	0.0020	0.028		0.07	0.00070	0.0099		0.02	0.00020	0.028	
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.01	0.0010	0.056	U	0.01	0.0010	0.014	U	0.01	0.00010	0.014	U	0.01	0.00010	0.014	U
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.05	0.0050	0.071		0.03	0.0030	0.036	U	0.07	0.00070	0.0083		0.03	0.00030	0.036	U
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.03	0.0030	0.080	U	0.03	0.0030	0.060	U	0.04	0.00040	0.0080	U	0.04	0.00040	0.060	U
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.01	0.0010	0.073	U	0.01	0.0010	0.018	U	0.01	0.00010	0.018	U	0.01	0.00010	0.018	U
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.0040	0.014	U	0.04	0.0040	0.056	U	0.03	0.00030	0.0042	U	0.03	0.00030	0.056	U
97320852	WB	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.024		0.03	0.0030	0.071		0.04	0.00040	0.0095		0.01	0.00010	0.071	
97320853	WB	Spring Chinook	56	A	Klickitat River	0.02	0.0020	0.020	U	0.02	0.0020	0.041	U	0.04	0.00040	0.0082		0.01	0.00010	0.041	U
97320854	WB	Spring Chinook	56	A	Klickitat River	0.02	0.0020	0.043	U	0.05	0.0050	0.11		0.11	0.0011	0.024		0.02	0.00020	0.11	U
97320855	FS	Spring Chinook	56	A	Klickitat River	0.02	0.0020	0.045	U	0.05	0.0050	0.23		0							

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDF				2,3,4,6,7,8-HxCDF				1,2,3,4,6,7,8-HpCDF				1,2,3,4,7,8,9-HpCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97320856	FS	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.20	U	0.01	0.0010	0.033	U	0.02	0.00020	0.0067	U	0.02	0.00020	0.033	U
97320857	FS	Spring Chinook	56	A	Klickitat River	0.01	0.0010	0.031	U	0.04	0.0040	0.13		0.02	0.00020	0.0062	U	0.02	0.00020	0.13	U
97090980	FS	Steelhead	96		Clearwater River	0.06	0.0060	0.11	U	0.23	0.023	0.52		0.1	0.0010	0.023		0.06	0.00060	0.52	U
97090981	FS	Steelhead	96		Clearwater River	0.07	0.0070	0.18	U	0.07	0.0070	0.18	U	0.09	0.00090	0.024		0.06	0.00060	0.18	U
97090982	FS	Steelhead	96		Clearwater River	0.13	0.013	0.24	U	0.19	0.019	0.50		0.1	0.0010	0.026		0.1	0.0010	0.50	U
97090983	WB	Steelhead	96		Clearwater River	0.07	0.0070	0.11		0.19	0.019	0.33		0.02	0.00020	0.0035	U	0.02	0.00020	0.33	U
97090984	WB	Steelhead	96		Clearwater River	0.08	0.0080	0.034		0.2	0.020	0.34		0.02	0.00020	0.0034	U	0.02	0.00020	0.34	U
97090985	WB	Steelhead	96		Clearwater River	0.02	0.0020	0.035	U	0.22	0.022	0.39		0.12	0.0012	0.021		0.06	0.00060	0.39	
97090986	FS	Steelhead	96		Clearwater River	0.07	0.0070	0.10		0.22	0.022	0.44		0.03	0.00030	0.0060	U	0.03	0.00030	0.44	U
97140810	WB	Steelhead	93	A	Snake River	0.07	0.0070	0.018		0.17	0.017	0.31		0.07	0.00070	0.013		0.01	0.00010	0.31	U
97140811	WB	Steelhead	93	A	Snake River	0.02	0.0020	0.036	U	0.14	0.014	0.26		0.02	0.00020	0.0036	U	0.02	0.00020	0.26	U
97140812	WB	Steelhead	93	A	Snake River	0.01	0.0010	0.027	U	0.16	0.016	0.43		0.08	0.00080	0.022		0.01	0.00010	0.43	U
97140815	FS	Steelhead	93	A	Snake River	0.06	0.0060	0.053		0.13	0.013	0.34		0.09	0.00090	0.024		0.01	0.00010	0.34	U
97140816	FS	Steelhead	93	A	Snake River	0.01	0.0010	0.094	U	0.17	0.017	0.53		0.08	0.00080	0.025		0.01	0.00010	0.53	U
97140817	FS	Steelhead	93	A	Snake River	0.02	0.0020	0.027	U	0.17	0.017	0.46		0.01	0.0010	0.0027	U	0.01	0.00010	0.46	U
97380978	WB	Steelhead	56		Klickitat River	0.02	0.0020	0.0068	U	0.02	0.0020	0.014	U	0.02	0.00020	0.0014	U	0.02	0.00020	0.014	U
97380979	WB	Steelhead	56		Klickitat River	0.03	0.0030	0.029	U	0.03	0.0030	0.022	U	0.04	0.00040	0.0029	U	0.04	0.00040	0.022	U
97380980	WB	Steelhead	56		Klickitat River	0.01	0.0010	0.0064	U	0.01	0.0010	0.0064	U	0.01	0.00010	0.0064	U	0.01	0.00010	0.0064	U
97380990	WB	Steelhead	8	D	Columbia River	0.04	0.0040	0.016	U	0.04	0.0040	0.031	U	0.03	0.00030	0.0024	U	0.03	0.00030	0.031	U
97380991	WB	Steelhead	8	E	Columbia River	0.02	0.0020	0.019	U	0.03	0.0030	0.019		0.02	0.00020	0.0012	U	0.02	0.00020	0.019	U
97380992	WB	Steelhead	8	F	Columbia River	0.02	0.0020	0.015	U	0.02	0.0020	0.015	U	0.02	0.00020	0.0015	U	0.02	0.00020	0.015	U
97380993	FS	Steelhead	8	E	Columbia River	0.02	0.0020	0.022	U	0.02	0.0020	0.022	U	0.03	0.00030	0.0032	U	0.03	0.00030	0.022	U
97380994	FS	Steelhead	8	H	Columbia River	0.02	0.0020	0.032	U	0.03	0.0030	0.032		0.03	0.00030	0.0032	U	0.03	0.00030	0.032	U
97380995	FS	Steelhead	8	H	Columbia River	0.01	0.0010	0.015	U	0.01	0.0010	0.015	U	0.02	0.00020	0.0029	U	0.02	0.00020	0.015	U
97380999	E	Steelhead	8	E	Columbia River	0.02	0.0020	0.017	U	0.02	0.0020	0.017	U	0.02	0.00020	0.0017	U	0.02	0.00020	0.017	U
97390800	FS	Steelhead	56		Klickitat River	0.04	0.0040	0.025	U	0.04	0.0040	0.049	U	0.04	0.00040	0.049	U	0.04	0.00040	0.049	U
97390801	FS	Steelhead	56		Klickitat River	0.01	0.0010	0.020	U	0.01	0.0010	0.010	U	0.02	0.00020	0.0020	U	0.02	0.00020	0.010	U
97390802	FS	Steelhead	56		Klickitat River	0.05	0.0050	0.029	U	0.05	0.0050	0.049	U	0.04	0.00040	0.0039	U	0.04	0.00040	0.049	U
98064090	FS	Steelhead	8	D	Columbia River	0.03	0.0030	0.023	U	0.03	0.0030	0.068	U	0.01	0.0010	0.0023	U	0.01	0.00010	0.068	U
98064091	FS	Steelhead	8	D	Columbia River	0.01	0.0010	0.050		0.05	0.0050	0.13		0.03	0.00030	0.0075	U	0.03	0.00030	0.13	U
98064092	FS	Steelhead	8	F	Columbia River	0.02	0.0020	0.056	U	0.02	0.0020	0.028	U	0.05	0.00050	0.0069		0.02	0.00020	0.028	U
98064093	WB	Steelhead	8	D	Columbia River	0.02	0.0020	0.059	U	0.08	0.0080	0.12		0.05	0.00050	0.0074	U	0.05	0.00050	0.12	U
98064094	WB	Steelhead	8	F	Columbia River	0.02	0.0020	0.053	U	0.02	0.0020	0.027	U	0.07	0.00070	0.0093	U	0.07	0.00070	0.027	U
98064095	WB	Steelhead	8	F	Columbia River	0.03	0.0030	0.012	U	0.03	0.0030	0.036	U	0.06	0.00060	0.0071	U	0.06	0.00060	0.036	U
98124150	WB	Steelhead	48	F	Yakima River	0.01	0.0010	0.091	U	0.03	0.0030	0.14		0.01	0.00010	0.0045	U	0.01	0.00010	0.14	U
98124151	WB	Steelhead	48	F	Yakima River	0.01	0.0010	0.17	U	0.01	0.0010	0.034	U	0.02	0.00020	0.0069	U	0.02	0.00020	0.034	U
98124152	WB	Steelhead	48	F	Yakima River	0.02	0.0020	0.14	U	0.02	0.0020	0.091	U	0.02	0.00020	0.0091	U	0.02	0.00020	0.091	U
98124153	FS	Steelhead	48	F	Yakima River	0.01	0.0010	0.16	U	0.02	0.0020	0.11		0.02	0.00020	0.011	U	0.02	0.00020	0.11	U
98124154	FS	Steelhead	48	F	Yakima River	0.01	0.0010	0.029	U	0.04	0.0040	0.12		0.01	0.00010	0.0029	U	0.01	0.00010	0.12	U
98124155	FS	Steelhead	48	F	Yakima River	0.01	0.0010	0.13	U	0.01	0.0010	0.033	U	0.01	0.00010	0.0033	U	0.02	0.00020	0.033	U
98144100	WB	Steelhead	25		Hood River	0.02	0.0020	0.15	U	0.07	0.0070	0.26		0.05	0.00050	0.019	U	0.05	0.00050	0.26	U
98144101	WB	Steelhead	25		Hood River	0.02	0.0020	0.057	U	0.02	0.0020	0.057	U	0.02	0.00020	0.0057	U	0.02	0.00020	0.057	U
98144102	WB	Steelhead	25		Hood River	0.01	0.0010	0.042	U	0.01	0.0010	0.021	U	0.02	0.00020	0.0042	U	0.02	0.00020	0.021	U
98144103	FS	Steelhead	25		Hood River	0.02	0.0020	0.19	U	0.02	0.0020	0.13	U	0.04	0.00040	0.025		0.04	0.00040	0.13	U
98144104	FS	Steelhead	25		Hood River	0.01	0.0010	0.13	U	0.01	0.0010	0.042	U	0.03	0.00030	0.012	U	0.03	0.00030	0.042	U
98144105	FS	Steelhead	25		Hood River	0.01	0.0010	0.091	U	0.01	0.0010	0.045	U	0.02	0.00020	0.0091	U	0.02	0.00020	0.045	U
96284741	FS	Walleye	30	B	Umatilla River	0.05	0.0050	0.13		0.12	0.012	0.80		0.01	0.00010	0.0067	U	0.01	0.00010	0.80	U
96284742	FS	Walleye	30	B	Umatilla River	0.05	0.0050	0.13		0.12	0.012	0.80		0.05	0.00050	0.033		0.01	0.00010	0.80	U
96284743	FS	Walleye	30	B	Umatilla River	0.06	0.0060	0.077		0.13	0.013	1.0		0.07	0.00070	0.054		0.01	0.00010	1.0	U
96284744	WB	Walleye	30	B	Umatilla River	0.11	0.011	0.10		0.16	0.016	0.20		0.11	0.0011	0.014		0.04	0.00040	0.20	
97490850	WB	Walleye	7	B	Columbia River	0.01	0.0010	0.087	U	0.04	0.0040	0.058		0.02	0.00020	0.0029	U	0.02	0.00020	0.058	U

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	1,2,3,7,8,9-HxCDF				2,3,4,6,7,8-HxCDF				1,2,3,4,6,7,8-HpCDF				1,2,3,4,7,8,9-HpCDF			
						TEQ		TEQ		TEQ		TEQ		TEQ		TEQ		TEQ			
						Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual	Conc	Conc	Lipid Norm	Qual
ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg
97490851	WB	Walleye	7	D	Columbia River	0.01	0.0010	0.040	U	0.04	0.0040	0.053	0.02	0.00020	0.0027	U	0.02	0.00020	0.053	U	
97080811	FW	White Sturgeon	6	C	Columbia River	0.13	0.013	0.21		0.17	0.017	0.35	0.11	0.0011	0.023		0.01	0.00010	0.35	U	
97080812	FW	White Sturgeon	6	C	Columbia River	0.09	0.0090	0.18		0.14	0.014	0.37	0.09	0.00090	0.024		0.03	0.00030	0.37		
97080813	FW	White Sturgeon	6	C	Columbia River	0.09	0.0090	0.47		0.12	0.012	0.80	0.07	0.00070	0.047		0.01	0.00010	0.80	U	
97080814	FW	White Sturgeon	6	C	Columbia River	0.09	0.0090	0.23		0.13	0.013	0.42	0.08	0.00080	0.026		0.02	0.00020	0.42		
97080815	FW	White Sturgeon	7	A	Columbia River	0.12	0.012	0.19		0.18	0.018	0.34	0.13	0.0013	0.025		0.07	0.00070	0.34		
97080816	FW	White Sturgeon	7	A	Columbia River	0.07	0.0070	0.056		0.13	0.013	0.72	0.07	0.00070	0.039		0.01	0.00010	0.72	U	
97080817	FW	White Sturgeon	7	A	Columbia River	0.09	0.0090	0.11		0.14	0.014	0.18	0.09	0.00090	0.012		0.03	0.00030	0.18		
97080818	FW	White Sturgeon	8	F	Columbia River	0.01	0.0010	0.12	U	0.14	0.014	0.34	0.09	0.00090	0.022		0.02	0.00020	0.34	U	
97080819	FW	White Sturgeon	8	F	Columbia River	0.05	0.0050	0.080	U	0.15	0.015	0.15	0.1	0.0010	0.01		0.06	0.00060	0.15	U	
97080820	FW	White Sturgeon	8	F	Columbia River	0.06	0.0060	0.066		0.17	0.017	0.19	0.13	0.0013	0.014		0.02	0.00020	0.19	U	
97130800	WB	White Sturgeon	8	E	Columbia River	0.07	0.0070	0.099		0.02	0.0020	0.028	U	0.17	0.0017	0.024		0.05	0.00050	0.028	
97130801	WB	White Sturgeon	8	B	Columbia River	0.06	0.0060	0.070		0.19	0.019	0.27	0.03	0.00030	0.0042		0.03	0.00030	0.27	U	
97130802	WB	White Sturgeon	8	E	Columbia River	0.05	0.0050	0.026		0.19	0.019	0.25	0.13	0.0013	0.017		0.03	0.00030	0.25	U	
97140800	FW	White Sturgeon	13	E	Snake River	0.06	0.0060	0.077		0.16	0.016	0.25	0.12	0.0012	0.018		0.02	0.00020	0.25	U	
97140801	FW	White Sturgeon	13	E	Snake River	0.01	0.0010	0.032	U	0.15	0.015	0.24	0.1	0.0010	0.016		0.02	0.00020	0.24	U	
97320850	FW	White Sturgeon	13	F	Snake River	0.02	0.0020	0.014	U	0.03	0.0030	0.021	0.13	0.0013	0.0092		0.02	0.00020	0.021	U	
97320851	FW	White Sturgeon	13	F	Snake River	0.02	0.0020	0.056	U	0.02	0.0020	0.019	U	0.08	0.00080	0.0075		0.02	0.00020	0.019	U
97500965	FW	White Sturgeon	9	D	Columbia River	0.02	0.0020	0.069	U	0.03	0.0030	0.034	0.13	0.0013	0.015		0.03	0.00030	0.034	U	
97500966	FW	White Sturgeon	9	B	Columbia River	0.04	0.0040	0.068	U	0.05	0.0050	0.068	0.1	0.0010	0.014		0.1	0.0010	0.068	U	
97500967	FW	White Sturgeon	9	B	Columbia River	0.03	0.0030	0.039	U	0.03	0.0030	0.039	U	0.14	0.0014	0.018		0.03	0.00030	0.039	U
97500968	FW	White Sturgeon	9	A	Columbia River	0.03	0.0030	0.022	U	0.05	0.0050	0.036		0.21	0.0021	0.015		0.06	0.00060	0.036	U
97500969	WB	White Sturgeon	9	A	Columbia River	0.01	0.0010	0.0090	U	0.02	0.0020	0.018		0.02	0.00020	0.0018		0.02	0.00020	0.018	U
97500970	WB	White Sturgeon	9	A	Columbia River	0.01	0.0010	0.068	U	0.01	0.0010	0.017	U	0.09	0.00090	0.015		0.01	0.00010	0.017	U
97500971	WB	White Sturgeon	9	A	Columbia River	0.02	0.0020	0.039	U	0.07	0.0070	0.092		0.2	0.0020	0.026		0.03	0.00030	0.092	U
98024000	WB	White Sturgeon	9	I	Columbia River	0.05	0.0050	0.039		0.05	0.0050	0.039		0.21	0.0021	0.016		0.17	0.0017	0.039	U
98024001	WB	White Sturgeon	9	F	Columbia River	0.03	0.0030	0.068	U	0.03	0.0030	0.051	U	0.11	0.0011	0.019		0.11	0.0011	0.051	U
98024002	FW	White Sturgeon	9	I	Columbia River	0.03	0.0030	0.082	U	0.04	0.0040	0.055		0.1	0.0010	0.014		0.1	0.0010	0.055	U
98024003	FW	White Sturgeon	9	I	Columbia River	0.03	0.0030	0.029	U	0.04	0.0040	0.057		0.08	0.00080	0.011		0.08	0.00080	0.057	U

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	OCDF				PCB 77				PCB 105				PCB 114					
						TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual
						ng/kg	ng/kg					ng/kg	ng/kg lipid					ng/kg	ng/kg	ng/kg lipid			
96294094	WB	Bridgelip Sucker	48	F	Yakima River	0.07	0.000007	0.000093		36.5	0.00365	0.0487		586	0.0586	0.781		43	0.0215	0.287			
96294095	WB	Bridgelip Sucker	48	F	Yakima River	0.08	0.000008	0.000084		35.1	0.00351	0.0369		531	0.0531	0.559		49.9	0.0250	0.263			
96294096	WB	Bridgelip Sucker	48	F	Yakima River	0.05	0.000005	0.000070		31.1	0.00311	0.0438		578	0.0578	0.814		47.7	0.0239	0.336			
97500950	WB	Channel Catfish	8	F	Columbia River	0.01	0.000001	0.0000076		26.8	0.00268	0.0205		3280	0.328	2.50		328	0.164	1.25			
97500951	WB	Channel Catfish	8	F	Columbia River	0.04	0.000004	0.000028		22.1	0.00221	0.0152		1340	0.134	0.924		119	0.0595	0.410			
97500952	WB	Channel Catfish	8	F	Columbia River	0.02	0.000002	0.000095	U	36.7	0.00367	0.0175		2180	0.218	1.04		233	0.117	0.555			
97500956	FS	Channel Catfish	8	B	Columbia River	0.09	0.000009	0.000044		36.7	0.00367	0.0178		2030	0.203	0.985		194	0.0970	0.471			
97500957	FS	Channel Catfish	8	C	Columbia River	0.03	0.000003	0.000024		35.8	0.00358	0.0289		3900	0.390	3.15		416	0.208	1.68			
97420931	WB	Coho	30		Umatilla River	0.03	0.000003	0.00011	U	9.66	0.000966	0.0358		291	0.0291	1.08		23.5	0.0118	0.435			
97420932	WB	Coho	30		Umatilla River	0.06	0.000006	0.00012	U	11.3	0.00113	0.0231		330	0.0330	0.673		30.7	0.0154	0.313			
97420933	WB	Coho	30		Umatilla River	0.06	0.000006	0.00014	U	8.83	0.000883	0.0205		300	0.0300	0.698		27.4	0.0137	0.319			
97450966	FS	Coho	30		Umatilla River	0.02	0.000002	0.000077	U	8.07	0.000807	0.0310		312	0.0312	1.20		28.9	0.0145	0.556			
97450967	FS	Coho	30		Umatilla River	0.02	0.000002	0.000091	U	8.35	0.000835	0.0380		313	0.0313	1.42		31.9	0.0160	0.725			
97450968	FS	Coho	30		Umatilla River	0.02	0.000002	0.000095	U	8.03	0.000803	0.0382		267	0.0267	1.27		23.9	0.0120	0.569			
97450970	E	Coho	30		Umatilla River	0.18	0.000018	0.00022		10.7	0.00107	0.0129		332	0.0332	0.400		29.1	0.0146	0.175			
97450971	E	Coho	30		Umatilla River	0.22	0.000022	0.00026		10.4	0.00104	0.0124		348	0.0348	0.414		34.4	0.0172	0.205			
97450972	E	Coho	30		Umatilla River	0.01	0.000001	0.000012	U	10.1	0.00101	0.0126		271	0.0271	0.339		23.9	0.0120	0.149			
97070800	WB	Eulachon	3	B	Columbia River	0.26	0.000026	0.00021		8.08	0.000808	0.00646		147.2	0.0147	0.118		11.21	0.00561	0.0448			
97070801	WB	Eulachon	3	B	Columbia River	0.1	0.000010	0.000075		8.31	0.000831	0.00625		150.35	0.0150	0.113		10.35	0.00518	0.0389			
97070802	WB	Eulachon	3	B	Columbia River	0.27	0.000027	0.00021		8.17	0.000817	0.00628		145.16	0.0145	0.112		11.26	0.00563	0.0433			
97380975	WB	Fall Chinook	56		Klickitat River	0.05	0.000005	0.000049	U	6.83	0.000683	0.00663		157	0.0157	0.152		15.3	0.00765	0.0743			
97380976	WB	Fall Chinook	56		Klickitat River	0.09	0.000009	0.000090	U	5.14	0.000514	0.00514		150	0.0150	0.150		14.8	0.00740	0.0740			
97380977	WB	Fall Chinook	56		Klickitat River	0.07	0.000007	0.000071	U	5.44	0.000544	0.00555		114	0.0114	0.116		11.4	0.00570	0.0582			
97380981	FS	Fall Chinook	56		Klickitat River	0.03	0.000003	0.000037	U	5.29	0.000529	0.00645		115	0.0115	0.140		10.6	0.00530	0.0646			
97380982	FS	Fall Chinook	56		Klickitat River	0.13	0.000013	0.00012		5.41	0.000541	0.00510		193	0.0193	0.182		17.1	0.00855	0.0807			
97380983	FS	Fall Chinook	56		Klickitat River	0.04	0.000004	0.000059	U	4.07	0.000407	0.00599		118	0.0118	0.174		10.8	0.00540	0.0794			
97380984	WB	Fall Chinook	8	G	Columbia River	0.08	0.000008	0.000067	U	6.97	0.000697	0.00581		143	0.0143	0.119		14.1	0.00705	0.0587			
97380985	WB	Fall Chinook	8	G	Columbia River	0.07	0.000007	0.000064	U	5.48	0.000548	0.00498		120	0.0120	0.109		12.7	0.00635	0.0577			
97380986	WB	Fall Chinook	8	G	Columbia River	0.09	0.000009	0.000086	U	6.57	0.000657	0.00626		138	0.0138	0.131		13.8	0.00690	0.0657			
97380987	FS	Fall Chinook	8	G	Columbia River	0.04	0.000004	0.000038	U	6.04	0.000604	0.00581		180	0.0180	0.173		16.1	0.00805	0.0774			
97380988	FS	Fall Chinook	8	D	Columbia River	0.07	0.000007	0.000069	U	6.25	0.000625	0.00619		245	0.0245	0.243		19.9	0.00995	0.0985			
97380989	FS	Fall Chinook	8	D	Columbia River	0.05	0.000005	0.000053	U	5.48	0.000548	0.00583		222	0.0222	0.236		18.1	0.00905	0.0963			
97380977	FS	Fall Chinook	8	D	Columbia River	0.01	0.000001	0.000010	U	5.2	0.000520	0.00536		222	0.0222	0.229		18.6	0.00930	0.0959			
97380998	E	Fall Chinook	8	D	Columbia River	0.05	0.000005	0.000033	U	4.64	0.000464	0.00309		108	0.0108	0.0720		9.76	0.00488	0.0325			
97400925	WB	Fall Chinook	14		Columbia River	0.06	0.000006	0.000068	U	48.8	0.00488	0.0555		591	0.0591	0.672		41.6	0.0208	0.236			
97400926	WB	Fall Chinook	14		Columbia River	0.04	0.000004	0.000054	U	30.7	0.00307	0.0415		463	0.0463	0.626		41.2	0.0206	0.278			
97400927	WB	Fall Chinook	14		Columbia River	0.03	0.000003	0.000039	U	46.1	0.00461	0.0607		579	0.0579	0.762		41.9	0.0210	0.276			
97400928	FS	Fall Chinook	14		Columbia River	0.02	0.000002	0.000029	U	35.5	0.00355	0.0507		427	0.0427	0.610		31.1	0.0156	0.222			
97400929	FS	Fall Chinook	14		Columbia River	0.05	0.000005	0.000091	U	39.7	0.00397	0.0722		485	0.0485	0.882		33	0.0165	0.300			
97400930	FS	Fall Chinook	14		Columbia River	0.03	0.000003	0.000043	U	57.4	0.00574	0.0820		630	0.0630	0.900		44.7	0.0224	0.319			
97420925	WB	Fall Chinook	30		Umatilla River	0.03	0.000003	0.000050	U	16.1	0.00161	0.0268		656	0.0656	1.09		53.2	0.0266	0.443			
97420926	WB	Fall Chinook	30		Umatilla River	0.04	0.000004	0.000073	U	10.7	0.00107	0.0195		224	0.0224	0.407		20.9	0.0105	0.190			
97420927	WB	Fall Chinook	30		Umatilla River	0.02	0.000002	0.000034	U	7.65	0.000765	0.0132		123	0.0123	0.212		12	0.00600	0.103			
97420928	FS	Fall Chinook	30		Umatilla River	0.02	0.000002	0.000056	U	6.43	0.000643	0.0179		158	0.0158	0.439		16.7	0.00835	0.232			
97420929	FS	Fall Chinook	30		Umatilla River	0.03	0.000003	0.000088	U	6.76	0.000676	0.0199		216	0.0216	0.635		20.3	0.0102	0.299			
97420930	FS	Fall Chinook	30		Umatilla River	0.03	0.000003	0.00012	U	4.13	0.000413	0.0172		80.1	0.00801	0.334		8.28	0.00414	0.172			
97420934	WB	Fall Chinook	48	F	Yakima River	0.06	0.000006	0.000092	U	9.71	0.000971	0.0149		341	0.0341	0.525		30.8	0.0154	0.237			
97420935	WB	Fall Chinook	48	F	Yakima River	0.1	0.000010	0.000118		9.13	0.000913	0.0160		201	0.0201	0.353		17.8	0.00890	0.156			
97420936	WB	Fall Chinook	48	F	Yakima River	0.06	0.000006	0.000080	U	9.29	0.000929	0.0124		211	0.0211	0.281		18.8					

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	OCDF				PCB 77				PCB 105				PCB 114			
						TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid	
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual
97420939	FS	Fall Chinook	48	F	Yakima River	0.07	0.000007	0.000014	U	7.5	0.000750	0.0147		191	0.0191	0.375		17.8	0.00890	0.175	
97420940	FS	Fall Chinook	48	F	Yakima River	0.07	0.000007	0.000020	U	9.43	0.000943	0.0269		247	0.0247	0.706		21	0.0105	0.300	
96284795	WB	Largescaler Sucker	30	A	Umatilla River	0.01	0.000001	0.000029	U	32	0.00320	0.0914		397	0.0397	1.13		29.3	0.0147	0.419	
96284796	WB	Largescaler Sucker	30	A	Umatilla River	0.06	0.000006	0.000017		39.5	0.00395	0.113		335	0.0335	0.957		26.2	0.0131	0.374	
96284797	WB	Largescaler Sucker	30	A	Umatilla River	0.1	0.000010	0.000023		34.1	0.00341	0.0793		353	0.0353	0.821		28.9	0.0145	0.336	
96284798	FS	Largescaler Sucker	30	A	Umatilla River	0.02	0.000002	0.000017		18.9	0.00189	0.157		607	0.0607	5.06		55.3	0.0277	2.30	
96294091	WB	Largescaler Sucker	48	F	Yakima River	0.07	0.000007	0.000013		31.4	0.00314	0.0604		789	0.0789	1.52		52.8	0.0264	0.508	
96294092	WB	Largescaler Sucker	48	F	Yakima River	0.06	0.000006	0.000017		28.7	0.00287	0.0820		874	0.0874	2.50		59	0.0295	0.843	
96294093	WB	Largescaler Sucker	48	F	Yakima River	0.01	0.000001	0.000026	U	43.7	0.00437	0.112		513	0.0513	1.32		71.7	0.0359	0.919	
96374700	FS	Largescaler Sucker	30	A	Umatilla River	0.22	0.000022	0.000018		21.5	0.00215	0.179		439	0.0439	3.66		39.5	0.0198	1.65	
96374701	FS	Largescaler Sucker	30	A	Umatilla River	0.07	0.000007	0.000050		15.8	0.00158	0.113		272	0.0272	1.94		24.6	0.0123	0.879	
96374702	FS	Largescaler Sucker	30	A	Umatilla River	0.07	0.000007	0.000044		14.3	0.00143	0.0894		342	0.0342	2.14		30.6	0.0153	0.956	
96374793	WB	Largescaler Sucker	49		Yakima River	0.06	0.000006	0.000013		16.9	0.00169	0.0360		1260	0.126	2.68		95.6	0.0478	1.02	
96374794	WB	Largescaler Sucker	49		Yakima River	0.01	0.000001	0.000012	U	36.2	0.00362	0.0453		1250	0.125	1.56		105	0.0525	0.656	
96374795	WB	Largescaler Sucker	49		Yakima River	0.04	0.000004	0.000063		25	0.00250	0.0397		908	0.0908	1.44		78.1	0.0391	0.620	
96374796	FS	Largescaler Sucker	49		Yakima River	0.06	0.000006	0.000024		8.26	0.000826	0.0330		324	0.0324	1.30		25	0.0125	0.500	
96374797	FS	Largescaler Sucker	49		Yakima River	0.01	0.000001	0.000033	U	7.39	0.000739	0.0246		228	0.0228	0.760		17.7	0.00885	0.295	
96374798	FS	Largescaler Sucker	49		Yakima River	0.3	0.000030	0.0013		9.02	0.000902	0.0392		437	0.0437	1.90		34.5	0.0173	0.750	
97080800	WB	Largescaler Sucker	98	D	Deschutes River	0.04	0.000004	0.000049	U	37.77	0.00378	0.0466		1210	0.121	1.49		78.65	0.0393	0.485	
97080801	WB	Largescaler Sucker	98	C	Deschutes River	0.07	0.000007	0.000010		40.8	0.00408	0.0583		949.42	0.0949	1.36		69.53	0.0348	0.497	
97080802	WB	Largescaler Sucker	98	B	Deschutes River	0.09	0.000009	0.000087		40.27	0.00403	0.0387		1030	0.103	0.990		67.57	0.0338	0.325	
97080824	FS	Largescaler Sucker	98	E	Deschutes River	0.12	0.000012	0.000037	U	12.07	0.00121	0.0377		317.12	0.0317	0.991		24.41	0.0122	0.381	
97080825	FS	Largescaler Sucker	98	C	Deschutes River	0.08	0.000008	0.000023	U	14.58	0.00146	0.0417		419.92	0.0420	1.20		31.69	0.0158	0.453	
97080990	FS	Largescaler Sucker	98	A	Deschutes River	0.08	0.000008	0.000018		23.6	0.00236	0.0536		586.36	0.0586	1.33		45.66	0.0228	0.519	
97304975	WB	Largescaler Sucker	9	E	Columbia River	0.01	0.000001	0.000026	U	107	0.0107	0.274		6530	0.653	16.7		541	0.271	6.94	
97304976	WB	Largescaler Sucker	9	E	Columbia River	0.04	0.000004	0.000012	U	60.5	0.000605	0.189		2720	0.272	8.50		232	0.116	3.63	
97304977	WB	Largescaler Sucker	9	F	Columbia River	0.01	0.000001	0.000042	U	53.8	0.00538	0.224		3390	0.339	14.1		327	0.164	6.81	
97304978	FS	Largescaler Sucker	9	F	Columbia River	0.08	0.000008	0.000042		41.5	0.00415	0.218		3040	0.304	16.0		275	0.138	7.24	
97304979	FS	Largescaler Sucker	9	H	Columbia River	0.11	0.000011	0.000058		31.7	0.00317	0.167		1570	0.157	8.26		132	0.0660	3.47	
97304980	FS	Largescaler Sucker	9	H	Columbia River	0.02	0.000002	0.000014	U	32	0.00320	0.229		2410	0.241	17.2		222	0.111	7.93	
97500953	WB	Largescaler Sucker	8	F	Columbia River	0.02	0.000002	0.000031	U	45.9	0.00459	0.0717		1250	0.125	1.95		95.5	0.0478	0.746	
97500954	WB	Largescaler Sucker	8	I	Columbia River	0.11	0.000011	0.000017		55.6	0.00556	0.0855		1170	0.117	1.80		96	0.0480	0.738	
98164075	WB	Largescaler Sucker	48	H	Yakima River	0.08	0.000008	0.000013		40.5	0.00405	0.0664		1080	0.108	1.77		81.1	0.0406	0.665	
98164076	WB	Largescaler Sucker	48	H	Yakima River	0.1	0.000010	0.000021		38.8	0.00388	0.0808		785	0.0785	1.64		55.1	0.0276	0.574	
98164077	WB	Largescaler Sucker	48	J	Yakima River	0.11	0.000011	0.000026		28.5	0.00285	0.0679		987	0.0987	2.35		73.4	0.0367	0.874	
98164078	FS	Largescaler Sucker	48	J	Yakima River	0.1	0.000010	0.000036		32.2	0.00322	0.115		654	0.0654	2.34		46.3	0.0232	0.827	
98164079	FS	Largescaler Sucker	48	I	Yakima River	0.04	0.000004	0.000019	U	18.5	0.00185	0.0881		706	0.0706	3.36		54	0.0270	1.29	
98164080	FS	Largescaler Sucker	48	I	Yakima River	0.02	0.000002	0.000057	U	23.7	0.00237	0.0677		535	0.0535	1.53		39.5	0.0198	0.564	
98184125	WB	Largescaler Sucker	13	E	Snake River	0.14	0.000014	0.000028		11.5	0.00115	0.0230		318	0.0318	0.636		24.6	0.0123	0.246	
98184126	WB	Largescaler Sucker	13	E	Snake River	0.01	0.000001	0.000037	U	4.25	0.004025	0.0157		193	0.0193	0.715		17.5	0.00875	0.324	
98184127	WB	Largescaler Sucker	13	C	Snake River	0.51	0.000051	0.0014		11.9	0.00119	0.0331		307	0.0307	0.853		24.6	0.0123	0.342	
98184128	FS	Largescaler Sucker	13	C	Snake River	0.02	0.000002	0.000010	U	5.5	0.000550	0.0275		174	0.0174	0.870		15.7	0.00785	0.392	
98184129	FS	Largescaler Sucker	13	D	Snake River	0.03	0.000003	0.000018	U	3.65	0.000365	0.0215		162	0.0162	0.953		13.7	0.00685	0.403	
98184130	FS	Largescaler Sucker	13	D	Snake River	0.04	0.000004	0.000029	U	6.2	0.000620	0.0443		145	0.0145	1.04		12.3	0.00615	0.439	
96284904	WB	Mountain Whitefish	101		Umatilla River	0.01	0.000001	0.000010	U	122	0.0122	0.126		828	0.0828	0.854		107	0.0535	0.552	
96284905	WB	Mountain Whitefish	101	A	Umatilla River	0.02	0.000002	0.000017		21.7	0.00217	0.0189		310	0.0310	0.270		22.2	0.0111	0.0965	
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	0.04	0.000004	0.000037		42.5	0.00425	0.0394		553	0.0553	0.512		41.3	0.0207	0.191	
96284907	FS	Mountain Whitefish	101	A	Umatilla River	0.02	0.000002	0.000033		56.1	0.00561	0.0935		562	0.0562	0.937		44.9	0.0225	0.374	
96284908	FS	Mountain Whitefish	101	A	Umatilla River	0.02	0.000002	0.000036		19.9	0.00199	0.0355		148	0.0148	0.264		13	0.00650	0.116	
96284909	FS	Mountain Whitefish	101		Umatilla River	0.01	0.000001	0.000016	U	16.9	0.00169	0.0273		165	0.0165	0.266		13.2	0.00660	0.106	
97080804	WB	Mountain Whitefish	98	D	Deschutes River	0.04	0.000004	0.000093		32.86	0.00329	0.0764		1300	0.130	3.02		94.73	0.0474	1.10	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	OCDF				PCB 77				PCB 105				PCB 114					
						TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual
						ng/kg	ng/kg lipid					ng/kg	ng/kg lipid					ng/kg	ng/kg lipid				
97080805	WB	Mountain Whitefish	98	C	Deschutes River	0.09	0.000009	0.00020	U	44.11	0.00441	0.0980	1560	0.156	3.47	115.19	0.0576	1.28					
97080806	WB	Mountain Whitefish	98	B	Deschutes River	0.07	0.000007	0.00014	U	36.87	0.00369	0.0723	1300	0.130	2.55	100.16	0.0501	0.982					
97080807	FS	Mountain Whitefish	98	A	Deschutes River	0.1	0.000010	0.00042		25.72	0.00257	0.107	949.29	0.0949	3.96	75	0.0375	1.56					
97080808	FS	Mountain Whitefish	98	A	Deschutes River	0.1	0.000010	0.00038		27.29	0.00273	0.105	1020	0.102	3.92	80.94	0.0405	1.56					
97080809	FS	Mountain Whitefish	98	B	Deschutes River	0.03	0.000003	0.00025		13.73	0.00137	0.114	1070	0.107	8.92	84.49	0.0422	3.52					
97080810	FS	Mountain Whitefish	98	A	Deschutes River	0.07	0.000007	0.00024		15.43	0.00154	0.0532	1090	0.109	3.76	77.32	0.0387	1.33					
97470990	WB	Mountain Whitefish	9	Q	Columbia River	0.2	0.000020	0.00025		291	0.0291	0.359	5330	0.533	6.58	592	0.296	3.65					
97470991	WB	Mountain Whitefish	9	Q	Columbia River	0.13	0.000013	0.00014	U	278	0.0278	0.293	4600	0.460	4.84	445	0.223	2.34					
97470992	WB	Mountain Whitefish	9	P	Columbia River	0.04	0.000004	0.000049		307	0.0307	0.379	7320	0.732	9.04	706	0.353	4.36					
97470993	FS	Mountain Whitefish	9	O	Columbia River	0.04	0.000004	0.000058		319	0.0319	0.462	8480	0.848	12.3	786	0.393	5.70					
97470994	FS	Mountain Whitefish	9	O	Columbia River	0.05	0.000005	0.000065		353	0.0353	0.458	9290	0.929	12.1	845	0.423	5.49					
97470995	FS	Mountain Whitefish	9	N	Columbia River	0.01	0.000001	0.000014	U	875	0.0875	1.18	44800	4.48	60.5	3100	1.55	20.9					
98124160	WB	Mountain Whitefish	48	F	Yakima River	0.01	0.000001	0.000011	U	155	0.0155	0.165	3580	0.358	3.81	292	0.146	1.55					
98124161	WB	Mountain Whitefish	48	F	Yakima River	0.01	0.000001	0.000012	U	147	0.0147	0.181	3370	0.337	4.16	251	0.126	1.55					
98124162	WB	Mountain Whitefish	48	F	Yakima River	0.01	0.000001	0.000096	U	177	0.0177	0.170	3410	0.341	3.28	335	0.168	1.61					
98124165	FS	Mountain Whitefish	48	F	Yakima River	0.09	0.000009	0.00011	U	109	0.0109	0.130	2990	0.299	3.56	250	0.125	1.49					
98124166	FS	Mountain Whitefish	48	F	Yakima River	0.07	0.000007	0.000091	U	129	0.0129	0.168	2890	0.289	3.75	220	0.110	1.43					
98124167	FS	Mountain Whitefish	48	F	Yakima River	0.05	0.000005	0.000058		143	0.0143	0.166	3120	0.312	3.63	225	0.113	1.31					
96254770	WB	Pacific lamprey	21		Willamette River	0.02	0.000002	0.000093		27.2	0.00272	0.0127	806	0.0806	0.377	136	0.0680	0.318					
96254771	WB	Pacific lamprey	21		Willamette River	0.03	0.000003	0.000015		28.5	0.00285	0.0145	1020	0.102	0.520	139	0.0695	0.355					
96254772	WB	Pacific lamprey	21		Willamette River	0.03	0.000003	0.000016		28.7	0.00287	0.0153	828	0.0828	0.440	133	0.0665	0.354					
97220910	WB	Pacific lamprey	21		Willamette River	0.02	0.000002	0.000014	U	21	0.00210	0.0145	941	0.0941	0.649	111	0.0555	0.383					
97220911	WB	Pacific lamprey	21		Willamette River	0.06	0.000006	0.000034	U	18.1	0.00181	0.0101	1060	0.106	0.592	130	0.0650	0.363					
97220912	WB	Pacific lamprey	21		Willamette River	0.09	0.000009	0.000049	U	22.1	0.00221	0.0121	890	0.0890	0.486	100	0.0500	0.273					
97220915	FS	Pacific lamprey	21		Willamette River	0.02	0.000002	0.000010	U	23.8	0.00238	0.0121	1370	0.137	0.695	145	0.0725	0.368					
97220916	FS	Pacific lamprey	21		Willamette River	0.03	0.000003	0.000016	U	22.1	0.00221	0.0119	1120	0.112	0.602	130	0.0650	0.349					
97220917	FS	Pacific lamprey	21		Willamette River	0.11	0.000011	0.000050	U	23.1	0.00231	0.0106	1190	0.119	0.546	137	0.0685	0.314					
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	0.07	0.000007	0.000040		30.5	0.00305	0.0175	1660	0.166	0.954	170	0.0850	0.489					
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	0.09	0.000009	0.000048		37.4	0.00374	0.0201	2000	0.200	1.08	206	0.103	0.554					
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	0.09	0.000009	0.000047		33	0.00330	0.0174	1540	0.154	0.811	166	0.0830	0.437					
96284845	WB	Rainbow Trout	101		Umatilla River	0.02	0.000002	0.000042		2.17	0.000217	0.00452	41.9	0.00419	0.0873	3.62	0.00181	0.0377					
96284846	WB	Rainbow Trout	101	B	Thomas Creek	0.01	0.000001	0.000022	U	2.25	0.000225	0.00500	33.7	0.00337	0.0749	0.28	0.000140	0.00311	U				
96284990	WB	Rainbow Trout	101	C	Meacham Creek	0.03	0.000003	0.00011		7.5	0.000750	0.0268	208	0.0208	0.743	18.1	0.00905	0.323					
96284991	WB	Rainbow Trout	101	C	Meacham Creek	0.06	0.000006	0.00018		7.21	0.000721	0.0218	208	0.0208	0.630	21.1	0.0106	0.320					
96374730	FS	Rainbow Trout	49		Yakima River	0.08	0.000008	0.00024		9.13	0.000913	0.0269	396	0.0396	1.16	32.3	0.0162	0.475					
96374731	FS	Rainbow Trout	49		Yakima River	0.91	0.000091	0.0028		9.27	0.000927	0.0290	421	0.0421	1.32	35.9	0.0180	0.561					
96374732	FS	Rainbow Trout	49		Yakima River	0.05	0.000005	0.00014		10	0.00100	0.0270	458	0.0458	1.24	34.5	0.0173	0.466					
96374765	WB	Rainbow Trout	49		Yakima River	0.07	0.000007	0.00010		20.7	0.00207	0.0304	651	0.0651	0.957	55.2	0.0276	0.406					
96374766	WB	Rainbow Trout	49		Yakima River	0.01	0.000001	0.000017	U	16.9	0.00169	0.0291	586	0.0586	1.01	48.5	0.0243	0.418					
96374767	WB	Rainbow Trout	49		Yakima River	0.01	0.000001	0.000017	U	14.4	0.00144	0.0248	555	0.0555	0.957	45.9	0.0230	0.396					
97080803	WB	Rainbow Trout	98	A	Deschutes River	0.05	0.000005	0.00010		20.48	0.00205	0.0427	789.22	0.0789	1.64	58.79	0.0294	0.612					
97080821	WB	Rainbow Trout	98	E	Deschutes River	0.1	0.000010	0.00023		16.3	0.00163	0.0379	781.51	0.0782	1.82	60.51	0.0303	0.704					
97080822	WB	Rainbow Trout	98	D	Deschutes River	0.03	0.000003	0.000071		19.03	0.00190	0.0453	739.85	0.0740	1.76	55.05	0.0275	0.655					
97080823	FS	Rainbow Trout	98	B	Deschutes River	0.05	0.000005	0.00016	U	12.43	0.00124	0.0388	448.78	0.0449	1.40	34.9	0.0175	0.545					
97170950	FS	Rainbow Trout	98	E	Deschutes River	0.06	0.000006	0.00017		13.9	0.00139	0.0397	554	0.0554	1.58	41.1	0.0206	0.587					
97170951	FS	Rainbow Trout	98	D	Deschutes River	0.03	0.000003	0.000097		15.8	0.00158	0.0510	654	0.0654	2.11	49.7	0.0249	0.802					
97170952	FS	Rainbow Trout	98	C	Deschutes River	0.04	0.000004	0.00012		12.1	0.00121	0.0378	496	0.0496	1.55	36.7	0.0184	0.573					
97330975	WB	Rainbow Trout	56	B	Klickitat River	0.06	0.000006	0.000095	U	12.9	0.00129	0.0205	206	0.0206	0.327	15.7	0.00785	0.125					
97330976	WB	Rainbow Trout	56	F	Klickitat River	0.06	0.000006	0.000081	U	3.58	0.000358	0.0484	79.2	0.00792	0.107	6.64	0.00332	0.0449					
97200840	WB	Spring Chinook	30		Umatilla River	0.05	0.000005	0.000029	U	12.7	0.00127	0.00743	286	0.0286	0.167	26.4	0.0132	0.0772					
97200841	WB	Spring Chinook	30		Umatilla River	0.06	0.000006	0.000039	U	12.3	0.00123	0.00804											

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	OCDF				PCB 77				PCB 105				PCB 114			
						TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid		TEQ Lipid	
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual
97200842	WB	Spring Chinook	30		Umatilla River	0.05	0.000005	0.000033	U	13.5	0.00135	0.00882		276	0.0276	0.180		25.9	0.0130	0.0846	
97200843	FS	Spring Chinook	30		Umatilla River	0.05	0.000005	0.000032	U	12.7	0.00127	0.00804		238	0.0238	0.151		19.9	0.00995	0.0630	
97200844	FS	Spring Chinook	30		Umatilla River	0.05	0.000005	0.000037	U	11.1	0.00111	0.00828		224	0.0224	0.167		22.1	0.0111	0.0825	
97200845	FS	Spring Chinook	30		Umatilla River	0.04	0.000004	0.000026	U	13.1	0.00131	0.00856		238	0.0238	0.156		22.2	0.0111	0.0725	
97200846	E	Spring Chinook	30		Umatilla River	0.06	0.000006	0.000033	U	9.74	0.000974	0.00535		180	0.0180	0.0989		16.4	0.00820	0.0451	
97200847	E	Spring Chinook	30		Umatilla River	0.03	0.000003	0.000016	U	9.54	0.000954	0.00505		172	0.0172	0.0910		14.7	0.00735	0.0389	
97200848	E	Spring Chinook	30		Umatilla River	0.03	0.000003	0.000016	U	10.6	0.00106	0.00576		190	0.0190	0.103		20.3	0.0102	0.0552	
97220900	WB	Spring Chinook	48	G	Yakima River	0.04	0.000004	0.000027	U	12.8	0.00128	0.00865		239	0.0239	0.161		21.6	0.0108	0.0730	
97220901	WB	Spring Chinook	48	G	Yakima River	0.13	0.000013	0.000096		14.1	0.00141	0.0104		247	0.0247	0.183		21.8	0.0109	0.0807	
97220902	WB	Spring Chinook	48	G	Yakima River	0.05	0.000005	0.000033	U	9.02	0.000902	0.00601		244	0.0244	0.163		22.6	0.0113	0.0753	
97220903	FS	Spring Chinook	48	G	Yakima River	0.05	0.000005	0.000042	U	11.3	0.00113	0.00950		235	0.0235	0.197		21.8	0.0109	0.0916	
97220904	FS	Spring Chinook	48	G	Yakima River	0.09	0.000009	0.000083	U	11.4	0.00114	0.0106		237	0.0237	0.219		19.9	0.00995	0.0921	
97220905	FS	Spring Chinook	48	G	Yakima River	0.05	0.000005	0.000033	U	11.9	0.00119	0.00778		232	0.0232	0.152		21.5	0.0108	0.0703	
97250800	WB	Spring Chinook	94		Looking Glass Creek	0.04	0.000004	0.000032	U	12.4	0.00124	0.00992		224	0.0224	0.179		19.5	0.00975	0.0780	
97250801	WB	Spring Chinook	94		Looking Glass Creek	0.02	0.000002	0.000014	U	14.1	0.00141	0.00993		249	0.0249	0.175		21.4	0.0107	0.0754	
97250802	WB	Spring Chinook	94		Looking Glass Creek	0.03	0.000003	0.000022	U	12.9	0.00129	0.00963		269	0.0269	0.201		25.1	0.0126	0.0937	
97250803	FS	Spring Chinook	94		Looking Glass Creek	0.02	0.000002	0.000019	U	12	0.00120	0.0112		222	0.0222	0.207		20.8	0.0104	0.0972	
97250804	FS	Spring Chinook	94		Looking Glass Creek	0.01	0.000001	0.0000092	U	11.2	0.00112	0.0103		222	0.0222	0.204		18.8	0.00940	0.0862	
97250805	FS	Spring Chinook	94		Looking Glass Creek	0.02	0.000002	0.000016	U	11.8	0.00118	0.00929		222	0.0222	0.175		19.8	0.00990	0.0780	
97250806	FS	Spring Chinook	94		Looking Glass Creek	0.03	0.000003	0.000025	U	11.5	0.00115	0.00950		207	0.0207	0.171		17.5	0.00875	0.0723	
97250807	E	Spring Chinook	94		Looking Glass Creek	0.16	0.000016	0.000086	U	14.1	0.00141	0.00754		230	0.0230	0.123		20	0.0100	0.0535	
97250808	E	Spring Chinook	94		Looking Glass Creek	0.04	0.000004	0.000020		12.9	0.00129	0.00658		235	0.0235	0.120		20.3	0.0102	0.0518	
97250809	E	Spring Chinook	94		Looking Glass Creek	0.04	0.000004	0.000022	U	11.1	0.00111	0.00610		195	0.0195	0.107		17.9	0.00895	0.0492	
97250811	WB	Spring Chinook	51		Icicle Creek	0.15	0.000015	0.000013	U	14	0.00140	0.0125		255	0.0255	0.228		22.4	0.0112	0.100	
97250812	WB	Spring Chinook	51		Icicle Creek	0.14	0.000014	0.000012		17.3	0.00173	0.0147		278	0.0278	0.236		22.2	0.0111	0.0941	
97250813	WB	Spring Chinook	51		Icicle Creek	0.23	0.000023	0.000023		15.8	0.00158	0.0156		240	0.0240	0.238		21.7	0.0109	0.107	
97250814	FS	Spring Chinook	51		Icicle Creek	0.21	0.000021	0.000023		10.9	0.00109	0.0118		191	0.0191	0.208		17.7	0.00885	0.0962	
97250815	FS	Spring Chinook	51		Icicle Creek	0.03	0.000003	0.000034	U	12.8	0.00128	0.0145		217	0.0217	0.247		20	0.0100	0.114	
97250816	FS	Spring Chinook	51		Icicle Creek	0.07	0.000007	0.000080	U	13.2	0.00132	0.0150		233	0.0233	0.265		21.5	0.0108	0.122	
97250820	WB	Spring Chinook	63		Wind River	0.01	0.000001	0.000098	U	12.6	0.00126	0.0124		214	0.0214	0.210		21.4	0.0107	0.105	
97250821	WB	Spring Chinook	63		Wind River	0.02	0.000002	0.000016		12.9	0.00129	0.0105		226	0.0226	0.184		20	0.0100	0.0813	
97250822	WB	Spring Chinook	63		Wind River	0.03	0.000003	0.000026	U	13.8	0.00138	0.0118		228	0.0228	0.195		20.5	0.0103	0.0876	
97250823	FS	Spring Chinook	63		Wind River	0.07	0.000007	0.000097	U	10.9	0.00109	0.0151		190	0.0190	0.264		16.3	0.00815	0.113	
97250824	FS	Spring Chinook	63		Wind River	0.01	0.000001	0.000011	U	10.7	0.00107	0.0113		217	0.0217	0.228		20	0.0100	0.105	
97250825	FS	Spring Chinook	63		Wind River	0.17	0.000017	0.000018	U	10.4	0.00104	0.0108		193	0.0193	0.201		15.7	0.00785	0.0818	
97260975	WB	Spring Chinook	62		Little White Salmon River	0.07	0.000007	0.000053	U	10.7	0.00107	0.00817		233	0.0233	0.178		21.2	0.0106	0.0809	
97260976	WB	Spring Chinook	62		Little White Salmon River	0.06	0.000006	0.000055	U	12.6	0.00126	0.0116		242	0.0242	0.222		21.2	0.0106	0.0972	
97260977	WB	Spring Chinook	62		Little White Salmon River	0.03	0.000003	0.000027		11.9	0.00119	0.0108		257	0.0257	0.234		21.8	0.0109	0.0991	
97260978	FS	Spring Chinook	62		Little White Salmon River	0.03	0.000003	0.000032	U	10.1	0.00101	0.0109		222	0.0222	0.239		20.4	0.0102	0.110	
97260979	FS	Spring Chinook	62		Little White Salmon River	0.03	0.000003	0.000027	U	13.2	0.00132	0.0120		261	0.0261	0.237		25.6	0.0128	0.116	
97260980	FS	Spring Chinook	62		Little White Salmon River	0.04	0.000004	0.000041	U	9.87	0.000987	0.0102		201	0.0201	0.207		20.9	0.0105	0.108	
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.02	0.000002	0.000028	U	11.6	0.00116	0.0163		273	0.0273	0.385		21.7	0.0109	0.153	
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.05	0.000005	0.000070		11.7	0.00117	0.0165		226	0.0226	0.318		18.3	0.00915	0.129	
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	0.07	0.000007	0.000083		10.2	0.00102	0.0121		235	0.0235	0.280		18.2	0.00910	0.108	
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.09	0.000009	0.000018		8.3	0.000830	0.0166		146	0.0146	0.292		12.6	0.00630	0.126	
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.04	0.000004	0.000073		6.99	0.000699	0.0127		149	0.0149	0.271		13.6	0.00680	0.124	
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	0.05	0.000005	0.000070	U	7.5	0.000750	0.0106		207	0.0207	0.292		18.5	0.00925	0.130	
97320852	WB	Spring Chinook	56	A	Klickitat River	0.04	0.000004	0.000095		12.2	0.00122	0.0290		302	0.0302	0.719		29.6	0.0148	0.352	
97320853	WB	Spring Chinook	56	A	Klickitat River	0.01	0.000001	0.000020	U	12.1	0.00121	0.0247		429	0.0429	0.876		40.9	0.0205	0.417	
97320854	WB	Spring Chinook	56	A	Klickitat River	0.17	0.000017	0.000037		10.9	0.00109	0.0237		337	0.0337	0.733		30.1	0.0151	0.327	
97320855	FS	Spring Chinook	56	A	Klickitat River	0.09	0.000009	0.00041		0.76	0.000076	0.00345	U	149	0.0149	0.677		13.8	0.00690	0.314	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	OCDF				PCB 77				PCB 105				PCB 114					
						TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual
						ng/kg	ng/kg lipid					ng/kg	ng/kg lipid					ng/kg	ng/kg lipid				
97320856	FS	Spring Chinook	56	A	Klickitat River	0.08	0.000008	0.000027	7.4	0.000740	0.0247	258	0.0258	0.860	24.2	0.0121	0.403						
97320857	FS	Spring Chinook	56	A	Klickitat River	0.03	0.000003	0.000094	U	10	0.00100	0.0313	162	0.0162	0.506	12.9	0.00645	0.202					
97090980	FS	Steelhead	96		Clearwater River	0.08	0.000008	0.000018	16.81	0.00168	0.0382	296.28	0.0296	0.673	27.16	0.0136	0.309						
97090981	FS	Steelhead	96		Clearwater River	0.06	0.000006	0.000016	U	18.17	0.00182	0.0478	302.36	0.0302	0.796	29.16	0.0146	0.384					
97090982	FS	Steelhead	96		Clearwater River	0.11	0.000011	0.000029	U	14.05	0.00141	0.0370	314.3	0.0314	0.827	30.64	0.0153	0.403					
97090983	WB	Steelhead	96		Clearwater River	0.12	0.000012	0.000021	16	0.00160	0.0281	327.15	0.0327	0.574	31.15	0.0156	0.273						
97090984	WB	Steelhead	96		Clearwater River	0.04	0.000004	0.000068	19.96	0.00200	0.0338	334.56	0.0335	0.567	30.62	0.0153	0.259						
97090985	WB	Steelhead	96		Clearwater River	0.14	0.000014	0.000025	16.27	0.00163	0.0285	285.75	0.0286	0.501	25.26	0.0126	0.222						
97090986	FS	Steelhead	96		Clearwater River	0.05	0.000005	0.000010	U	20.51	0.00205	0.0410	380.28	0.0380	0.761	36.39	0.0182	0.364					
97140810	WB	Steelhead	93	A	Snake River	0.01	0.000001	0.000018	U	18.6	0.00186	0.0338	312	0.0312	0.567	31.5	0.0158	0.286					
97140811	WB	Steelhead	93	A	Snake River	0.03	0.000003	0.000055	14.9	0.00149	0.0271	230	0.0230	0.418	21.6	0.0108	0.196						
97140812	WB	Steelhead	93	A	Snake River	0.02	0.000002	0.000054	U	16.7	0.00167	0.0451	300	0.0300	0.811	28.9	0.0145	0.391					
97140815	FS	Steelhead	93	A	Snake River	0.04	0.000004	0.000011	U	12.9	0.00129	0.0339	216	0.0216	0.568	22.1	0.0111	0.291					
97140816	FS	Steelhead	93	A	Snake River	0.02	0.000002	0.000062	U	14.7	0.00147	0.0459	264	0.0264	0.825	26.9	0.0135	0.420					
97140817	FS	Steelhead	93	A	Snake River	0.03	0.000003	0.000081	U	14	0.00140	0.0378	222	0.0222	0.600	21.8	0.0109	0.295					
97380978	WB	Steelhead	56		Klickitat River	0.04	0.000004	0.000027	U	22.2	0.00222	0.0151	324	0.0324	0.220	32.2	0.0161	0.110					
97380979	WB	Steelhead	56		Klickitat River	0.25	0.000025	0.000018	U	10.6	0.00106	0.00768	204	0.0204	0.148	20.9	0.0105	0.0757					
97380980	WB	Steelhead	56		Klickitat River	0.03	0.000003	0.000019	U	13.7	0.00137	0.00873	239	0.0239	0.152	24.4	0.0122	0.0777					
97380990	WB	Steelhead	8	D	Columbia River	0.1	0.000010	0.000079	U	13.8	0.00138	0.0109	236	0.0236	0.186	25.4	0.0127	0.100					
97380991	WB	Steelhead	8	E	Columbia River	0.11	0.000011	0.000069	U	11.2	0.00112	0.00700	221	0.0221	0.138	21.3	0.0107	0.0666					
97380992	WB	Steelhead	8	E	Columbia River	0.06	0.000006	0.000044	U	9.55	0.00955	0.00702	167	0.0167	0.123	18.2	0.00910	0.0669					
97380993	FS	Steelhead	8	E	Columbia River	0.08	0.000008	0.000086	U	11.9	0.00119	0.0128	194	0.0194	0.209	18.7	0.00935	0.101					
97380994	FS	Steelhead	8	H	Columbia River	0.05	0.000005	0.000054	U	9	0.000900	0.00968	168	0.0168	0.181	16.9	0.00845	0.0909					
97380995	FS	Steelhead	8	H	Columbia River	0.03	0.000003	0.000044	U	9.7	0.000970	0.0143	176	0.0176	0.259	17.6	0.00880	0.129					
97380999	E	Steelhead	8	E	Columbia River	0.03	0.000003	0.000026	U	7.98	0.000798	0.00688	153	0.0153	0.132	14.6	0.00730	0.0629					
97390800	FS	Steelhead	56		Klickitat River	0.07	0.000007	0.000086	U	15.5	0.00155	0.0191	238	0.0238	0.294	25	0.0125	0.154					
97390801	FS	Steelhead	56		Klickitat River	0.04	0.000004	0.000041	U	13.7	0.00137	0.0140	209	0.0209	0.213	20.5	0.0103	0.105					
97390802	FS	Steelhead	56		Klickitat River	0.05	0.000005	0.000049	U	11.4	0.00114	0.0112	192	0.0192	0.188	18.7	0.00935	0.0917					
98064090	FS	Steelhead	8	D	Columbia River	0.06	0.000006	0.000014	U	14.8	0.00148	0.0336	248	0.0248	0.564	24.1	0.0121	0.274					
98064091	FS	Steelhead	8	D	Columbia River	0.03	0.000003	0.000075	U	12.6	0.00126	0.0315	200	0.0200	0.500	21.2	0.0106	0.265					
98064092	FS	Steelhead	8	F	Columbia River	0.06	0.000006	0.000083	U	15.6	0.00156	0.0217	252	0.0252	0.350	26.2	0.0131	0.182					
98064093	WB	Steelhead	8	D	Columbia River	0.05	0.000005	0.000074	U	19.4	0.00194	0.0285	330	0.0330	0.485	32.1	0.0161	0.236					
98064094	WB	Steelhead	8	F	Columbia River	0.43	0.000043	0.000057	18.9	0.00189	0.0252	293	0.0293	0.391	29.4	0.0147	0.196						
98064095	WB	Steelhead	8	F	Columbia River	0.25	0.000025	0.000030	U	14.9	0.00149	0.0177	260	0.0260	0.310	26.8	0.0134	0.160					
98124150	WB	Steelhead	48	F	Yakima River	0.06	0.000006	0.000027	17.1	0.00171	0.0777	230	0.0230	1.05	23.5	0.0118	0.534						
98124151	WB	Steelhead	48	F	Yakima River	0.01	0.000001	0.000034	U	21.5	0.00215	0.0741	312	0.0312	1.08	31.5	0.0158	0.543					
98124152	WB	Steelhead	48	F	Yakima River	0.01	0.000001	0.000045	U	10.7	0.00107	0.0486	182	0.0182	0.827	19	0.00950	0.432					
98124153	FS	Steelhead	48	F	Yakima River	0.01	0.000001	0.000053	U	9.67	0.000967	0.0509	155	0.0155	0.816	16.8	0.00840	0.442					
98124154	FS	Steelhead	48	F	Yakima River	0.01	0.000001	0.000029	U	15.8	0.00158	0.0465	255	0.0255	0.750	25.7	0.0129	0.378					
98124155	FS	Steelhead	48	F	Yakima River	0.01	0.000001	0.000033	U	19.5	0.00195	0.0650	235	0.0235	0.783	24.1	0.0121	0.402					
98144100	WB	Steelhead	25		Hood River	0.05	0.000005	0.000019	U	19.4	0.00194	0.0719	316	0.0316	1.17	32.7	0.0164	0.606					
98144101	WB	Steelhead	25		Hood River	0.03	0.000003	0.000086	U	14.2	0.00142	0.0406	235	0.0235	0.671	23.2	0.0116	0.331					
98144102	WB	Steelhead	25		Hood River	0.03	0.000003	0.000062	U	11.9	0.00119	0.0248	198	0.0198	0.412	19.5	0.00975	0.203					
98144103	FS	Steelhead	25		Hood River	0.07	0.000007	0.000044	U	11.5	0.00115	0.0719	193	0.0193	1.21	20.5	0.0103	0.641					
98144104	FS	Steelhead	25		Hood River	0.03	0.000003	0.000012	U	18.3	0.00183	0.0762	302	0.0302	1.26	30.2	0.0151	0.629					
98144105	FS	Steelhead	25		Hood River	0.03	0.000003	0.000014	U	8.15	0.000815	0.0370	152	0.0152	0.691	15.6	0.00780	0.355					
96284741	FS	Walleye	30	B	Umatilla River	0.01	0.000001	0.000067	U	12	0.00120	0.0800	378	0.0378	2.52	30.5	0.0153	1.02					
96284742	FS	Walleye	30	B	Umatilla River	0.01	0.000001	0.000067	U	14.4	0.00144	0.0960	310	0.0310	2.07	25.1	0.0126	0.837					
96284743	FS	Walleye	30	B	Umatilla River	0.01	0.000001	0.000077	U	14.1	0.00141	0.108	316	0.0316	2.43	24.9	0.0125	0.958					
96284744	WB	Walleye	30	B	Umatilla River	0.1	0.000010	0.000013	74.3	0.00743	0.0929												

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	OCDF				PCB 77				PCB 105				PCB 114					
						TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual	TEQ Lipid		Conc	TEQ Conc	Norm	Qual
						ng/kg	ng/kg lipid					ng/kg	ng/kg lipid					ng/kg	ng/kg lipid				
97490851	WB	Walleye	7	D	Columbia River	0.01	0.000001	0.000013	U	80.5	0.00805	0.107	2670	0.267	3.56	232	0.116	1.55					
97080811	FW	White Sturgeon	6	C	Columbia River	0.08	0.000008	0.000017		22.49	0.00225	0.0469	2810	0.281	5.85	212.62	0.106	2.21					
97080812	FW	White Sturgeon	6	C	Columbia River	0.05	0.000005	0.000013		21.14	0.00211	0.0556	1940	0.194	5.11	132.75	0.0664	1.75					
97080813	FW	White Sturgeon	6	C	Columbia River	0.06	0.000006	0.000040		4.1	0.000410	0.0273	1700	0.170	11.3	144.04	0.0720	4.80					
97080814	FW	White Sturgeon	6	C	Columbia River	0.06	0.000006	0.000019		16.53	0.00165	0.0533	1890	0.189	6.10	165.88	0.0829	2.68					
97080815	FW	White Sturgeon	7	A	Columbia River	0.03	0.000003	0.000057	U	6.39	0.000639	0.0121	935.32	0.0935	1.76	78.36	0.0392	0.739					
97080816	FW	White Sturgeon	7	A	Columbia River	0.01	0.000001	0.000056	U	1.1	0.000110	0.00611	349.6	0.0350	1.94	27.7	0.0139	0.769					
97080817	FW	White Sturgeon	7	A	Columbia River	0.08	0.000008	0.000011		18.83	0.00188	0.0248	2160	0.216	2.84	179.33	0.0897	1.18					
97080818	FW	White Sturgeon	8	F	Columbia River	0.04	0.000004	0.000098		3.99	0.000399	0.00973	1030	0.103	2.51	88.27	0.0441	1.08					
97080819	FW	White Sturgeon	8	F	Columbia River	0.04	0.000004	0.000040	U	9.28	0.000928	0.00928	1620	0.162	1.62	141.44	0.0707	0.707					
97080820	FW	White Sturgeon	8	F	Columbia River	0.06	0.000006	0.000066		6.52	0.000652	0.00716	936.94	0.0937	1.03	70.8	0.0354	0.389					
97130800	WB	White Sturgeon	8	E	Columbia River	0.18	0.000018	0.00025		8.18	0.000818	0.0115	2010	0.201	2.83	160	0.0800	1.13					
97130801	WB	White Sturgeon	8	B	Columbia River	0.02	0.000002	0.000028	U	16.4	0.00164	0.0231	5560	0.556	7.83	471	0.236	3.32					
97130802	WB	White Sturgeon	8	E	Columbia River	0.01	0.000001	0.000013	U	9.65	0.000965	0.0125	5640	0.564	7.32	421	0.211	2.73					
97140800	FW	White Sturgeon	13	E	Snake River	0.05	0.000005	0.000077		12.3	0.00123	0.0189	1660	0.166	2.55	158	0.0790	1.22					
97140801	FW	White Sturgeon	13	E	Snake River	0.01	0.000001	0.000016	U	12.5	0.00125	0.0202	1730	0.173	2.79	172	0.0860	1.39					
97320850	FW	White Sturgeon	13	F	Snake River	0.01	0.000001	0.0000071	U	4.92	0.000492	0.00349	631	0.0631	0.448	50.3	0.0252	0.178					
97320851	FW	White Sturgeon	13	F	Snake River	0.01	0.000001	0.000093	U	31.2	0.00312	0.0292	3000	0.300	2.80	326	0.163	1.52					
97500965	FW	White Sturgeon	9	D	Columbia River	0.02	0.000002	0.000023	U	16.5	0.00165	0.0190	1740	0.174	2.00	137	0.0685	0.787					
97500966	FW	White Sturgeon	9	B	Columbia River	0.36	0.000036	0.00049		7.53	0.000753	0.0103	2780	0.278	3.81	260	0.130	1.78					
97500967	FW	White Sturgeon	9	B	Columbia River	0.04	0.000004	0.000052	U	7.93	0.000793	0.0103	3070	0.307	3.99	272	0.136	1.77					
97500968	FW	White Sturgeon	9	A	Columbia River	0.32	0.000032	0.00023		30.8	0.00308	0.0222	3610	0.361	2.60	338	0.169	1.22					
97500969	WB	White Sturgeon	9	A	Columbia River	0.1	0.000010	0.000090		16	0.00160	0.0144	2540	0.254	2.29	226	0.113	1.02					
97500970	WB	White Sturgeon	9	A	Columbia River	0.02	0.000002	0.000034	U	17.2	0.00172	0.0292	3390	0.339	5.75	255	0.128	2.16					
97500971	WB	White Sturgeon	9	A	Columbia River	0.23	0.000023	0.00030		12.4	0.00124	0.0163	2450	0.245	3.22	165	0.0825	1.09					
98024000	WB	White Sturgeon	9	I	Columbia River	0.95	0.000095	0.00074		27.9	0.00279	0.0218	2950	0.295	2.30	219	0.110	0.855					
98024001	WB	White Sturgeon	9	F	Columbia River	0.33	0.000033	0.00056		17	0.00170	0.0288	3900	0.390	6.61	335	0.168	2.84					
98024002	FW	White Sturgeon	9	I	Columbia River	0.25	0.000025	0.00034		62.5	0.00625	0.0856	9880	0.988	13.5	763	0.382	5.23					
98024003	FW	White Sturgeon	9	I	Columbia River	0.19	0.000019	0.00027		59.3	0.00593	0.0847	9280	0.928	13.3	739	0.370	5.28					

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 118				PCB 123				PCB 126				PCB 156			
						Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
96294094	WB	Bridgelip Sucker	48	F	Yakima River	1040	0.104	1.39		38.7	0.00387	0.0516		2.3	0.230	3.07	U	282	0.141	1.88	
96294095	WB	Bridgelip Sucker	48	F	Yakima River	1060	0.106	1.12		26.5	0.00265	0.0279		12.1	1.21	12.7		276	0.138	1.45	
96294096	WB	Bridgelip Sucker	48	F	Yakima River	1300	0.130	1.83		25.9	0.00259	0.0365		2.09	0.209	2.94	U	348	0.174	2.45	
97500950	WB	Channel Catfish	8	F	Columbia River	7120	0.712	5.44		151	0.0151	0.115		30.1	3.01	23.0		1530	0.765	5.84	
97500951	WB	Channel Catfish	8	F	Columbia River	2880	0.288	1.99		58.7	0.00587	0.0405		6.8	0.680	4.69		521	0.261	1.80	
97500952	WB	Channel Catfish	8	F	Columbia River	4810	0.481	2.29		110	0.0110	0.0524		1.74	0.174	0.829	U	1060	0.530	2.52	
97500956	FS	Channel Catfish	8	B	Columbia River	4560	0.456	2.21		91.7	0.00917	0.0445		13.7	1.37	6.65		906	0.453	2.20	
97500957	FS	Channel Catfish	8	C	Columbia River	9050	0.905	7.30		182	0.0182	0.147		1.71	0.171	1.38	U	1900	0.950	7.66	
97420931	WB	Coho	30		Umatilla River	684	0.0684	2.53		9.64	0.000964	0.0357		3.11	0.311	11.5		90.3	0.0452	1.67	
97420932	WB	Coho	30		Umatilla River	774	0.0774	1.58		11.2	0.00112	0.0229		3.3	0.330	6.73		105	0.0525	1.07	
97420933	WB	Coho	30		Umatilla River	722	0.0722	1.68		8.78	0.000878	0.0204		3.47	0.347	8.07		95.4	0.0477	1.11	
97450966	FS	Coho	30		Umatilla River	738	0.0738	2.84		15	0.00150	0.0577		1.99	0.199	7.65	U	121	0.0605	2.33	
97450967	FS	Coho	30		Umatilla River	744	0.0744	3.38		9.42	0.000942	0.0428		1.42	0.142	6.45	U	108	0.0540	2.45	
97450968	FS	Coho	30		Umatilla River	674	0.0674	3.21		10.9	0.00109	0.0519		0.85	0.0850	4.05	U	95.1	0.0476	2.26	
97450970	E	Coho	30		Umatilla River	730	0.0730	0.880		13.1	0.00131	0.0158		0.77	0.0770	0.928	U	85	0.0425	0.512	
97450971	E	Coho	30		Umatilla River	759	0.0759	0.904		12.8	0.00128	0.0152		1.08	0.108	1.29	U	100	0.0500	0.595	
97450972	E	Coho	30		Umatilla River	677	0.0677	0.846		11.2	0.00112	0.0140		1.01	0.101	1.26	U	82.3	0.0412	0.514	
97070800	WB	Eulachon	3	B	Columbia River	291.34	0.0291	0.233		10.55	0.00106	0.00844		1.68	0.168	1.34	U	28.62	0.0143	0.114	
97070801	WB	Eulachon	3	B	Columbia River	288.88	0.0289	0.217		10.03	0.00100	0.00754		1.89	0.189	1.42	U	30.4	0.0152	0.114	
97070802	WB	Eulachon	3	B	Columbia River	284.99	0.0285	0.219		11.73	0.00117	0.00902		2.14	0.214	1.65	U	27.76	0.0139	0.107	
97380975	WB	Fall Chinook	56		Klickitat River	361	0.0361	0.350		7.3	0.000730	0.00709		0.5	0.0500	0.485		32.8	0.0164	0.159	
97380976	WB	Fall Chinook	56		Klickitat River	359	0.0359	0.359		6.44	0.000644	0.00644		0.59	0.0590	0.590	U	31.9	0.0160	0.160	
97380977	WB	Fall Chinook	56		Klickitat River	273	0.0273	0.279		4.95	0.000495	0.00505		0.52	0.0520	0.531	U	25.3	0.0127	0.129	
97380981	FS	Fall Chinook	56		Klickitat River	273	0.0273	0.333		6.13	0.000613	0.00748		0.5	0.0500	0.610	U	18	0.00900	0.110	
97380982	FS	Fall Chinook	56		Klickitat River	461	0.0461	0.435		6.79	0.000679	0.00641		0.63	0.0630	0.594	U	31.4	0.0157	0.148	
97380983	FS	Fall Chinook	56		Klickitat River	285	0.0285	0.419		5.19	0.000519	0.00763		0.5	0.0500	0.735	U	20.4	0.0102	0.150	
97380984	WB	Fall Chinook	8	G	Columbia River	344	0.0344	0.287		6.65	0.000665	0.00554		1.56	0.156	1.30		23.9	0.0120	0.0996	
97380985	WB	Fall Chinook	8	G	Columbia River	288	0.0288	0.262		6.62	0.000662	0.00602		1.12	0.112	1.02	U	20.5	0.0103	0.0932	
97380986	WB	Fall Chinook	8	G	Columbia River	321	0.0321	0.306		6.12	0.000612	0.00583		0.62	0.0620	0.590	U	25.5	0.0128	0.121	
97380987	FS	Fall Chinook	8	G	Columbia River	406	0.0406	0.390		7.95	0.000795	0.00764		1.76	0.176	1.69		32.8	0.0164	0.158	
97380988	FS	Fall Chinook	8	D	Columbia River	532	0.0532	0.527		9.04	0.000904	0.00895		2.06	0.206	2.04		47.5	0.0238	0.235	
97380989	FS	Fall Chinook	8	D	Columbia River	496	0.0496	0.528		8.35	0.000835	0.00888		0.58	0.0580	0.617	U	41.6	0.0208	0.221	
97380997	FS	Fall Chinook	8	D	Columbia River	500	0.0500	0.515		8.69	0.000869	0.00896		1.82	0.182	1.88		40.4	0.0202	0.208	
97380998	E	Fall Chinook	8	D	Columbia River	254	0.0254	0.169		4.85	0.000485	0.00323		0.5	0.0500	0.333	U	12.3	0.00615	0.0410	
97400925	WB	Fall Chinook	14		Columbia River	1160	0.116	1.32		14	0.00140	0.0159		4.31	0.431	4.90		82.8	0.0414	0.470	
97400926	WB	Fall Chinook	14		Columbia River	978	0.0978	1.32		13.4	0.00134	0.0181		3.44	0.344	4.65		76.2	0.0381	0.515	
97400927	WB	Fall Chinook	14		Columbia River	1140	0.114	1.50		13.6	0.00136	0.0179		0.5	0.0500	0.658		77.6	0.0388	0.511	
97400928	FS	Fall Chinook	14		Columbia River	884	0.0884	1.26		11.3	0.00113	0.0161		3.24	0.324	4.63		56.8	0.0284	0.406	
97400929	FS	Fall Chinook	14		Columbia River	992	0.0992	1.80		15.1	0.00151	0.0275		3.58	0.358	6.51		59.8	0.0299	0.544	
97400930	FS	Fall Chinook	14		Columbia River	1290	0.129	1.84		15.2	0.00152	0.0217		0.5	0.0500	0.714	U	73.2	0.0366	0.523	
97420925	WB	Fall Chinook	30		Umatilla River	1460	0.146	2.43		12	0.00120	0.0200		4.69	0.469	7.82		195	0.0975	1.63	
97420926	WB	Fall Chinook	30		Umatilla River	491	0.0491	0.893		9.26	0.000926	0.0168		2.31	0.231	4.20		39.7	0.0199	0.361	
97420927	WB	Fall Chinook	30		Umatilla River	284	0.0284	0.490		5.39	0.000539	0.00929		0.5	0.0500	0.862	U	18.9	0.00945	0.163	
97420928	FS	Fall Chinook	30		Umatilla River	357	0.0357	0.992		6.76	0.000676	0.0188		1.68	0.168	4.67		26.4	0.0132	0.367	
97420929	FS	Fall Chinook	30		Umatilla River	483	0.0483	1.42		7.96	0.000796	0.0234		0.5	0.0500	1.47	U	44.8	0.0224	0.659	
97420930	FS	Fall Chinook	30		Umatilla River	196	0.0196	0.817		3.33	0.000333	0.0139		0.87	0.0870	3.62		15.5	0.00775	0.323	
97420934	WB	Fall Chinook	48	F	Yakima River	736	0.0736	1.13		10.7	0.00107	0.0165		2.39	0.239	3.68		83	0.0415	0.638	
97420935	WB	Fall Chinook	48	F	Yakima River	468	0.0468	0.821		8.4	0.000840	0.0147		2.46	0.246	4.32		39	0.0195	0.342	
97420936	WB	Fall Chinook	48	F	Yakima River	464	0.0464	0.619		7.79	0.000779	0.0104		0.66	0.0660	0.880	U	40.4	0.0202	0.269	
97420937	FS	Fall Chinook	48	F	Yakima River	497	0.0497	1.42		8.15	0.000815	0.0233		1.48	0.148	4.23		52.7	0.0264	0.753	
97420938	FS	Fall Chinook	48	F	Yakima River	405	0.0405	1.31		6.23	0.000623	0.0201		1.97	0.197	6.35		38.6	0.0193	0.623	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 118				PCB 123				PCB 126				PCB 156							
						Conc		TEQ Conc	TEQ Lipid Norm	Qual	Conc		TEQ Conc	TEQ Lipid Norm	Qual	Conc		TEQ Conc	TEQ Lipid Norm	Qual	Conc		TEQ Conc	TEQ Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid			ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid
97420939	FS	Fall Chinook	48	F	Yakima River	448	0.0448	0.878		5.83	0.000583	0.0114		1.75	0.175	3.43		43.9	0.0220	0.430					
97420940	FS	Fall Chinook	48	F	Yakima River	527	0.0527	1.51		7.09	0.000709	0.0203		1.96	0.196	5.60		58.5	0.0293	0.836					
96284795	WB	Largescale Sucker	30	A	Umatilla River	842	0.0842	2.41		16.6	0.00166	0.0474		0.54	0.0540	1.54	U	193	0.0965	2.76					
96284796	WB	Largescale Sucker	30	A	Umatilla River	712	0.0712	2.03		12.1	0.00121	0.0346		0.66	0.0660	1.89	U	153	0.0765	2.19					
96284797	WB	Largescale Sucker	30	A	Umatilla River	734	0.0734	1.71		12.3	0.00123	0.0286		0.26	0.0260	0.605	U	167	0.0835	1.94					
96284798	FS	Largescale Sucker	30	A	Umatilla River	1180	0.118	9.83		25.8	0.00258	0.215		1.38	0.138	11.5	U	340	0.170	14.2					
96294091	WB	Largescale Sucker	48	F	Yakima River	1240	0.124	2.38		40	0.00400	0.0769		1.71	0.171	3.29	U	427	0.214	4.11					
96294092	WB	Largescale Sucker	48	F	Yakima River	853	0.0853	2.44		29	0.00290	0.0829		3.85	0.385	11.0	U	605	0.303	8.64					
96294093	WB	Largescale Sucker	48	F	Yakima River	1190	0.119	3.05		36	0.00360	0.0923		6.06	0.606	15.5	U	679	0.340	8.71					
96374700	FS	Largescale Sucker	30	A	Umatilla River	969	0.0969	8.07		18.8	0.00188	0.157		2.35	0.235	19.6	U	207	0.104	8.63					
96374701	FS	Largescale Sucker	30	A	Umatilla River	633	0.0633	4.52		11.7	0.00117	0.0836		2.02	0.202	14.4	U	136	0.0680	4.86					
96374702	FS	Largescale Sucker	30	A	Umatilla River	795	0.0795	4.97		16.4	0.00164	0.102		2.24	0.224	14.0	U	164	0.0820	5.13					
96374793	WB	Largescale Sucker	49		Yakima River	2680	0.268	5.70		40.7	0.00407	0.0866		3.37	0.337	7.17		559	0.280	5.95					
96374794	WB	Largescale Sucker	49		Yakima River	2500	0.250	3.13		46	0.00460	0.0575		6.03	0.603	7.54		542	0.271	3.39					
96374795	WB	Largescale Sucker	49		Yakima River	1830	0.183	2.90		36.4	0.00364	0.0578		3.9	0.390	6.19		432	0.216	3.43					
96374796	FS	Largescale Sucker	49		Yakima River	807	0.0807	3.23		13.4	0.00134	0.0536		1.1	0.110	4.40	U	167	0.0835	3.34					
96374797	FS	Largescale Sucker	49		Yakima River	534	0.0534	1.78		9.78	0.000978	0.0326		1.17	0.117	3.90		97.3	0.0487	1.62					
96374798	FS	Largescale Sucker	49		Yakima River	1030	0.103	4.48		16.7	0.00167	0.0726		1.89	0.189	8.22		206	0.103	4.48					
97080800	WB	Largescale Sucker	98	D	Deschutes River	2710	0.271	3.35		35.96	0.00360	0.0444		7.49	0.749	9.25		419.38	0.210	2.59					
97080801	WB	Largescale Sucker	98	C	Deschutes River	2240	0.224	3.20		31.72	0.00317	0.0453		7.15	0.715	10.2		384.71	0.192	2.75					
97080802	WB	Largescale Sucker	98	B	Deschutes River	2300	0.230	2.21		32.88	0.00329	0.0316		8.07	0.807	7.76		390.54	0.195	1.88					
97080824	FS	Largescale Sucker	98	E	Deschutes River	749.92	0.0750	2.34		11.01	0.00110	0.0344		2.32	0.232	7.25		118.11	0.0591	1.85					
97080825	FS	Largescale Sucker	98	C	Deschutes River	972.82	0.0973	2.78		16.43	0.00164	0.0469		2.92	0.292	8.34		143.03	0.0715	2.04					
97080990	FS	Largescale Sucker	98	A	Deschutes River	1300	0.130	2.95		22.33	0.00223	0.0507		3.72	0.372	8.45		216.05	0.108	2.46					
97304975	WB	Largescale Sucker	9	E	Columbia River	14300	1.43	36.7		246	0.0246	0.631		21.2	2.12	54.4		2660	1.33	34.1					
97304976	WB	Largescale Sucker	9	E	Columbia River	5960	0.596	18.6		112	0.0112	0.350		13.4	1.34	41.9		1010	0.505	15.8					
97304977	WB	Largescale Sucker	9	F	Columbia River	7670	0.767	32.0		131	0.0131	0.546		14.3	1.43	59.6		1720	0.860	35.8					
97304978	FS	Largescale Sucker	9	F	Columbia River	6610	0.661	34.8		131	0.0131	0.689		12.8	1.28	67.4		1380	0.690	36.3					
97304979	FS	Largescale Sucker	9	H	Columbia River	3420	0.342	18.0		58.6	0.00586	0.308		6.97	0.697	36.7		714	0.357	18.8					
97304980	FS	Largescale Sucker	9	H	Columbia River	5380	0.538	38.4		95.9	0.00959	0.685		8.48	0.848	60.6		1110	0.555	39.6					
97500953	WB	Largescale Sucker	8	F	Columbia River	2480	0.248	3.88		52.6	0.00526	0.0822		1.66	0.166	2.59	U	467	0.234	3.65					
97500954	WB	Largescale Sucker	8	I	Columbia River	2280	0.228	3.51		43.9	0.00439	0.0675		0.96	0.0960	1.48	U	439	0.220	3.38					
98164075	WB	Largescale Sucker	48	H	Yakima River	2830	0.283	4.64		41.8	0.00418	0.0685		1.45	0.145	2.38	U	664	0.332	5.44					
98164076	WB	Largescale Sucker	48	H	Yakima River	1890	0.189	3.94		27.9	0.00279	0.0581		2.2	0.220	4.58	U	645	0.323	6.72					
98164077	WB	Largescale Sucker	48	J	Yakima River	2820	0.282	6.71		41.5	0.00415	0.0988		1.22	0.122	2.90	U	746	0.373	8.88					
98164078	FS	Largescale Sucker	48	J	Yakima River	1530	0.153	5.46		24.2	0.00242	0.0864		1.91	0.191	6.82	U	467	0.234	8.34					
98164079	FS	Largescale Sucker	48	I	Yakima River	2050	0.205	9.76		23.7	0.00237	0.113		1.33	0.133	6.33	U	609	0.305	14.5					
98164080	FS	Largescale Sucker	48	I	Yakima River	1300	0.130	3.71		20.6	0.00206	0.0589		1.16	0.116	3.31	U	405	0.203	5.79					
98184125	WB	Largescale Sucker	13	E	Snake River	749	0.0749	1.50		11.6	0.00116	0.0232		1.26	0.126	2.52	U	158	0.0790	1.58					
98184126	WB	Largescale Sucker	13	E	Snake River	501	0.0501	1.86		7.88	0.000788	0.0292		0.8	0.0800	2.96	U	123	0.0615	2.28					
98184127	WB	Largescale Sucker	13	C	Snake River	696	0.0696	1.93		12.5	0.00125	0.0347		0.8	0.0800	2.22	U	147	0.0735	2.04					
98184128	FS	Largescale Sucker	13	C	Snake River	430	0.0430	2.15		7.47	0.000747	0.0373		0.8	0.0800	4.00	U	102	0.0510	2.55					
98184129	FS	Largescale Sucker	13	D	Snake River	421	0.0421	2.48		7.24	0.000724	0.0426		0.63	0.0630	3.71	U	104	0.0520	3.06					
98184130	FS	Largescale Sucker	13	D	Snake River	361	0.0361	2.58		5.47	0.000547	0.0391		0.93	0.0930	6.64	U	85.1	0.0426	3.04					
96284904	WB	Mountain Whitefish	101		Umatilla River	1440	0.144	1.48		49.4	0.00494	0.0509		1.73	0.173	1.78	U	278	0.139	1.43					
96284905	WB	Mountain Whitefish	101	A	Umatilla River	569	0.0569	0.495		9.99	0.00100	0.00869		0.81	0.0810	0.704	U	131	0.0655	0.570					
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	1040	0.104	0.963		25.1	0.00251	0.0232		1.65	0.165	1.53	U	198	0.0990	0.917					
96284907	FS	Mountain Whitefish	101	A	Umatilla River	979	0.0979	1.63		23.3	0.00233	0.0388		0.62	0.0620	1.03	U	180	0.0900	1.50					
96284908	FS	Mountain Whitefish	101	A	Umatilla River	263	0.0263	0.470		7.53	0.000753	0.0134		0.61	0.0610	1.09	U	52.3	0.0262	0.467					
96284909	FS	Mountain Whitefish	101		Umatilla River	298	0.0298	0.481		8.23	0.000823	0.0133		0.69	0.0690	1.11	U	59.5	0.02						

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 118				PCB 123				PCB 126				PCB 156			
						Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97080805	WB	Mountain Whitefish	98	C	Deschutes River	3250	0.325	7.22		38.96	0.00390	0.0866		9.86	0.986	21.9		466.6	0.233	5.18	
97080806	WB	Mountain Whitefish	98	B	Deschutes River	2770	0.277	5.43		32.04	0.00320	0.0628		7.18	0.718	14.1		385.75	0.193	3.78	
97080807	FS	Mountain Whitefish	98	A	Deschutes River	2020	0.202	8.42		28.21	0.00282	0.118		6.23	0.623	26.0		319.88	0.160	6.66	
97080808	FS	Mountain Whitefish	98	A	Deschutes River	2130	0.213	8.19		28.48	0.00285	0.110		6.49	0.649	25.0		342.63	0.171	6.59	
97080809	FS	Mountain Whitefish	98	B	Deschutes River	2400	0.240	20.0		27.75	0.00278	0.231		6.41	0.641	53.4		386.15	0.193	16.1	
97080810	FS	Mountain Whitefish	98	A	Deschutes River	2300	0.230	7.93		21.32	0.00213	0.0735		5.1	0.510	17.6		391.86	0.196	6.76	
97470990	WB	Mountain Whitefish	9	Q	Columbia River	11200	1.12	13.8		204	0.0204	0.252		12.7	1.27	15.7		2380	1.19	14.7	
97470991	WB	Mountain Whitefish	9	Q	Columbia River	8740	0.874	9.20		195	0.0195	0.205		10.18	1.02	10.7		1890	0.945	9.95	
97470992	WB	Mountain Whitefish	9	P	Columbia River	11900	1.19	14.7		245	0.0245	0.302		15.6	1.56	19.3		2980	1.49	18.4	
97470993	FS	Mountain Whitefish	9	O	Columbia River	14800	1.48	21.4		289	0.0289	0.419		41.2	4.12	59.7		3490	1.75	25.3	
97470994	FS	Mountain Whitefish	9	O	Columbia River	16900	1.69	21.9		372	0.0372	0.483		32.2	3.22	41.8		3890	1.95	25.3	
97470995	FS	Mountain Whitefish	9	N	Columbia River	114000	11.4	154		1500	0.150	2.03		95.6	9.56	129		14900	7.45	101	
98124160	WB	Mountain Whitefish	48	F	Yakima River	7170	0.717	7.63		141	0.0141	0.150		27.5	2.75	29.3		1630	0.815	8.67	
98124161	WB	Mountain Whitefish	48	F	Yakima River	7170	0.717	8.85		98	0.00980	0.121		4.23	0.423	5.22	U	1630	0.815	10.1	
98124162	WB	Mountain Whitefish	48	F	Yakima River	6640	0.664	6.38		111	0.0111	0.107		4.54	0.454	4.37	U	1170	0.585	5.63	
98124165	FS	Mountain Whitefish	48	F	Yakima River	6450	0.645	7.68		93.1	0.00931	0.111		6.02	0.602	7.17	U	1420	0.710	8.45	
98124166	FS	Mountain Whitefish	48	F	Yakima River	6470	0.647	8.40		105	0.0105	0.136		15.9	1.59	20.6		1420	0.710	9.22	
98124167	FS	Mountain Whitefish	48	F	Yakima River	6280	0.628	7.30		92.2	0.00922	0.107		5.58	0.558	6.49	U	1570	0.785	9.13	
96254770	WB	Pacific lamprey	21		Willamette River	2360	0.236	1.10		47.1	0.00471	0.0220		28	2.80	13.1		301	0.151	0.703	
96254771	WB	Pacific lamprey	21		Willamette River	3060	0.306	1.56		36.6	0.00366	0.0187		31.1	3.11	15.9		299	0.150	0.763	
96254772	WB	Pacific lamprey	21		Willamette River	2430	0.243	1.29		48.2	0.00482	0.0256		26.1	2.61	13.9		314	0.157	0.835	
97220910	WB	Pacific lamprey	21		Willamette River	2780	0.278	1.92		38.1	0.00381	0.0263		14	1.40	9.66		234	0.117	0.807	
97220911	WB	Pacific lamprey	21		Willamette River	3340	0.334	1.87		36.3	0.00363	0.0203		11.9	1.19	6.65		270	0.135	0.754	
97220912	WB	Pacific lamprey	21		Willamette River	2530	0.253	1.38		32.7	0.00327	0.0179		10.9	1.09	5.96		200	0.100	0.546	
97220915	FS	Pacific lamprey	21		Willamette River	3620	0.362	1.84		47	0.00470	0.0239		14.7	1.47	7.46		298	0.149	0.756	
97220916	FS	Pacific lamprey	21		Willamette River	3420	0.342	1.84		57.9	0.00579	0.0311		13.5	1.35	7.26		256	0.128	0.688	
97220917	FS	Pacific lamprey	21		Willamette River	3840	0.384	1.76		70	0.00700	0.0321		18.6	1.86	8.53		269	0.135	0.617	
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	4660	0.466	2.68		66.6	0.00666	0.0383		22.5	2.25	12.9		391	0.196	1.12	
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	5520	0.552	2.97		68.3	0.00683	0.0367		28.8	2.88	15.5		464	0.232	1.25	
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	4920	0.492	2.59		61.2	0.00612	0.0322		23.7	2.37	12.5		386	0.193	1.02	
96284845	WB	Rainbow Trout	101		Umatilla River	77.6	0.00776	0.162		2.16	0.000216	0.00450		1.35	0.135	2.81		13.1	0.00655	0.136	
96284846	WB	Rainbow Trout	101	B	Thomas Creek	63	0.00630	0.140		1.75	0.000175	0.00389		1.25	0.125	2.78		11.7	0.00585	0.130	
96284990	WB	Rainbow Trout	101	C	Meacham Creek	483	0.0483	1.73		7.1	0.000710	0.0254		0.48	0.0480	1.71	U	76	0.0380	1.36	
96284991	WB	Rainbow Trout	101	C	Meacham Creek	474	0.0474	1.44		11.1	0.00111	0.0336		6.21	0.621	18.8		79.6	0.0398	1.21	
96374730	FS	Rainbow Trout	49		Yakima River	889	0.0889	2.61		15.5	0.00155	0.0456		2.12	0.212	6.24		196	0.0980	2.88	
96374731	FS	Rainbow Trout	49		Yakima River	922	0.0922	2.88		15.3	0.00153	0.0478		2.19	0.219	6.84		181	0.0905	2.83	
96374732	FS	Rainbow Trout	49		Yakima River	1020	0.102	2.76		15.7	0.00157	0.0424		2.26	0.226	6.11		201	0.101	2.72	
96374765	WB	Rainbow Trout	49		Yakima River	1480	0.148	2.18		24.4	0.00244	0.0359		3.23	0.323	4.75		289	0.145	2.13	
96374766	WB	Rainbow Trout	49		Yakima River	1280	0.128	2.21		21.2	0.00212	0.0366		3.08	0.308	5.31		264	0.132	2.28	
96374767	WB	Rainbow Trout	49		Yakima River	1260	0.126	2.17		21.8	0.00218	0.0376		3.09	0.309	5.33		267	0.134	2.30	
97080803	WB	Rainbow Trout	98	A	Deschutes River	1740	0.174	3.62		25.8	0.00258	0.0537		6.15	0.615	12.8		253.05	0.127	2.64	
97080821	WB	Rainbow Trout	98	E	Deschutes River	1610	0.161	3.74		15.06	0.00151	0.0350		5.16	0.516	12.0		259.42	0.130	3.02	
97080822	WB	Rainbow Trout	98	D	Deschutes River	1610	0.161	3.83		28.53	0.00285	0.0679		6.11	0.611	14.5		257.69	0.129	3.07	
97080823	FS	Rainbow Trout	98	B	Deschutes River	1000	0.100	3.13		16.31	0.00163	0.0510		3.24	0.324	10.1		154.6	0.0773	2.42	
97170950	FS	Rainbow Trout	98	E	Deschutes River	1160	0.116	3.31		18.7	0.00187	0.0534		4.77	0.477	13.6		182	0.0910	2.60	
97170951	FS	Rainbow Trout	98	D	Deschutes River	1350	0.135	4.35		19.8	0.00198	0.0639		4.54	0.454	14.6		220	0.110	3.55	
97170952	FS	Rainbow Trout	98	C	Deschutes River	1040	0.104	3.25		16.8	0.00168	0.0525		4.12	0.412	12.9		177	0.0885	2.77	
97330975	WB	Rainbow Trout	56	B	Klickitat River	451	0.0451	0.716		9.04	0.000904	0.0143		2.67	0.267	4.24		59.9	0.0300	0.475	
97330976	WB	Rainbow Trout	56	F	Klickitat River	149	0.0149	0.201		2.69	0.000269	0.0364		0.5	0.0500	0.676	U	16.4	0.00820	0.111	
97200840	WB	Spring Chinook	30		Umatilla River	667	0.0667	0.390		15.8	0.00158	0.00924		3.23	0.323	1.89		55.8	0.0279	0.163	
97200841	WB	Spring Chinook	30		Umatilla River	544	0.0544	0.356		11.4	0.00114	0.00745		3.49	0.349	2.28		40.6	0.0203	0.133	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 118				PCB 123				PCB 126				PCB 156			
						Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97200842	WB	Spring Chinook	30		Umatilla River	627	0.0627	0.410		11.7	0.00117	0.00765		3.57	0.357	2.33		48.3	0.0242	0.158	
97200843	FS	Spring Chinook	30		Umatilla River	543	0.0543	0.344		12.6	0.00126	0.00797		3.17	0.317	2.01		43.3	0.0217	0.137	
97200844	FS	Spring Chinook	30		Umatilla River	519	0.0519	0.387		8.96	0.000896	0.00669		3.06	0.306	2.28		45.8	0.0229	0.171	
97200845	FS	Spring Chinook	30		Umatilla River	564	0.0564	0.369		12.9	0.00129	0.00843		3.63	0.363	2.37		44	0.0220	0.144	
97200846	E	Spring Chinook	30		Umatilla River	401	0.0401	0.220		8.62	0.000862	0.00474		2.28	0.228	1.25		25.8	0.0129	0.0709	
97200847	E	Spring Chinook	30		Umatilla River	401	0.0401	0.212		4.85	0.000485	0.00257		0.9	0.0900	0.476	U	26.1	0.0131	0.0690	
97200848	E	Spring Chinook	30		Umatilla River	440	0.0440	0.239		10.6	0.00106	0.00576		2.22	0.222	1.21		24.1	0.0121	0.0655	
97220900	WB	Spring Chinook	48	G	Yakima River	555	0.0555	0.375		8.78	0.000878	0.00593		1.43	0.143	0.966	U	41.4	0.0207	0.140	
97220901	WB	Spring Chinook	48	G	Yakima River	549	0.0549	0.407		8.04	0.000804	0.00596		1.52	0.152	1.13	U	40.3	0.0202	0.149	
97220902	WB	Spring Chinook	48	G	Yakima River	557	0.0557	0.371		11.7	0.00117	0.00780		3.05	0.305	2.03		44.9	0.0225	0.150	
97220903	FS	Spring Chinook	48	G	Yakima River	549	0.0549	0.461		12.5	0.00125	0.0105		3.39	0.339	2.85		42	0.0210	0.176	
97220904	FS	Spring Chinook	48	G	Yakima River	548	0.0548	0.507		11	0.00110	0.0102		3.05	0.305	2.82		39.5	0.0198	0.183	
97220905	FS	Spring Chinook	48	G	Yakima River	529	0.0529	0.346		12.5	0.00125	0.00817		2.66	0.266	1.74		39.1	0.0196	0.128	
97250800	WB	Spring Chinook	94		Looking Glass Creek	528	0.0528	0.422		11.5	0.00115	0.00920		3.29	0.329	2.63		41	0.0205	0.164	
97250801	WB	Spring Chinook	94		Looking Glass Creek	566	0.0566	0.399		13.1	0.00131	0.00923		0.82	0.0820	0.577		42.1	0.0211	0.148	
97250802	WB	Spring Chinook	94		Looking Glass Creek	608	0.0608	0.454		12.8	0.00128	0.00955		1.53	0.153	1.14	U	49.9	0.0250	0.186	
97250803	FS	Spring Chinook	94		Looking Glass Creek	528	0.0528	0.493		11.1	0.00111	0.0104		3.48	0.348	3.25		42.4	0.0212	0.198	
97250804	FS	Spring Chinook	94		Looking Glass Creek	523	0.0523	0.480		10.7	0.00107	0.00982		1.11	0.111	1.02	U	37.7	0.0189	0.173	
97250805	FS	Spring Chinook	94		Looking Glass Creek	524	0.0524	0.413		10.6	0.00106	0.00835		3.31	0.331	2.61		38.6	0.0193	0.152	
97250806	FS	Spring Chinook	94		Looking Glass Creek	497	0.0497	0.411		11.3	0.00113	0.00934		0.64	0.0640	0.529	U	37.3	0.0187	0.154	
97250807	E	Spring Chinook	94		Looking Glass Creek	506	0.0506	0.271		11.9	0.00119	0.00636		3	0.300	1.60		31.3	0.0157	0.0837	
97250808	E	Spring Chinook	94		Looking Glass Creek	506	0.0506	0.258		12.3	0.00123	0.00628		2.48	0.248	1.27		31	0.0155	0.0791	
97250809	E	Spring Chinook	94		Looking Glass Creek	437	0.0437	0.240		8.08	0.000808	0.00444		2.09	0.209	1.15		27.2	0.0136	0.0747	
97250811	WB	Spring Chinook	51		Icicle Creek	576	0.0576	0.514		7.19	0.000719	0.00642		3.3	0.330	2.95		46.5	0.0233	0.208	
97250812	WB	Spring Chinook	51		Icicle Creek	631	0.0631	0.535		12.5	0.00125	0.0106		0.52	0.0520	0.441	U	50.9	0.0255	0.216	
97250813	WB	Spring Chinook	51		Icicle Creek	553	0.0553	0.548		12.2	0.00122	0.0121		3.63	0.363	3.59		42.2	0.0211	0.209	
97250814	FS	Spring Chinook	51		Icicle Creek	441	0.0441	0.479		8.73	0.000873	0.00949		2.51	0.251	2.73		35.4	0.0177	0.192	
97250815	FS	Spring Chinook	51		Icicle Creek	505	0.0505	0.574		12	0.00120	0.0136		4.58	0.458	5.20		38.1	0.0191	0.216	
97250816	FS	Spring Chinook	51		Icicle Creek	539	0.0539	0.613		8.35	0.000835	0.00949		0.81	0.0810	0.920	U	43.5	0.0218	0.247	
97250820	WB	Spring Chinook	63		Wind River	493	0.0493	0.483		11.2	0.00112	0.0110		4.2	0.420	4.12		38.5	0.0193	0.189	
97250821	WB	Spring Chinook	63		Wind River	522	0.0522	0.424		12.6	0.00126	0.0102		3.81	0.381	3.10		40.4	0.0202	0.164	
97250822	WB	Spring Chinook	63		Wind River	526	0.0526	0.450		11	0.00110	0.00940		0.64	0.0640	0.547	U	38.7	0.0194	0.165	
97250823	FS	Spring Chinook	63		Wind River	452	0.0452	0.628		6.07	0.000607	0.00843		2.68	0.268	3.72		37	0.0185	0.257	
97250824	FS	Spring Chinook	63		Wind River	507	0.0507	0.534		11.8	0.00118	0.0124		3	0.300	3.16		43.1	0.0216	0.227	
97250825	FS	Spring Chinook	63		Wind River	444	0.0444	0.462		7.13	0.000713	0.00743		2.84	0.284	2.96		35.9	0.0180	0.187	
97260975	WB	Spring Chinook	62		Little White Salmon River	550	0.0550	0.420		11.7	0.00117	0.00893		3.42	0.342	2.61		42.5	0.0213	0.162	
97260976	WB	Spring Chinook	62		Little White Salmon River	531	0.0531	0.487		7.82	0.000782	0.00717		3.1	0.310	2.84		42.4	0.0212	0.194	
97260977	WB	Spring Chinook	62		Little White Salmon River	555	0.0555	0.505		12.7	0.00127	0.0115		0.64	0.0640	0.582	U	45.9	0.0230	0.209	
97260978	FS	Spring Chinook	62		Little White Salmon River	506	0.0506	0.544		11.1	0.00111	0.0119		0.85	0.0850	0.914		38.7	0.0194	0.208	
97260979	FS	Spring Chinook	62		Little White Salmon River	590	0.0590	0.536		12.4	0.00124	0.0113		3.43	0.343	3.12		46.5	0.0233	0.211	
97260980	FS	Spring Chinook	62		Little White Salmon River	480	0.0480	0.495		12	0.00120	0.0124		3.05	0.305	3.14		32.2	0.0161	0.166	
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	574	0.0574	0.808		10.7	0.00107	0.0151		2.95	0.295	4.15		53.2	0.0266	0.375	
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	499	0.0499	0.703		11.5	0.00115	0.0162		2.46	0.246	3.46		43.5	0.0218	0.306	
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	501	0.0501	0.596		6.88	0.000688	0.00819		1.47	0.147	1.75		47.2	0.0236	0.281	
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	326	0.0326	0.652		6.3	0.000630	0.0126		1.14	0.114	2.28	U	29.7	0.0149	0.297	
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	324	0.0324	0.589		4.44	0.000444	0.00807		1.07	0.107	1.95	U	35.7	0.0179	0.325	
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	435	0.0435	0.613		7.58	0.000758	0.0107		1.65	0.165	2.32	U	44.7	0.0224	0.315	
97320852	WB	Spring Chinook	56	A	Klickitat River	689	0.0689	1.64		16.2	0.00162	0.0386		3.72	0.372	8.86		68.6	0.0343	0.817	
97320853	WB	Spring Chinook	56	A	Klickitat River	918	0.0918	1.87		14.9	0.00149	0.0304		4.68	0.468	9.55		88.5	0.0443	0.903	
97320854	WB	Spring Chinook	56	A	Klickitat River	747	0.0747	1.62		17.8	0.00178	0.0387		1.88	0.188	4.09	U	74.6	0.0373	0.811	
97320855	FS	Spring Chinook	56	A	Klickitat River	308	0.0308	1.40		8.52	0.000852	0.0387		1.73	0.173	7.86	U	30.3	0.0152	0.689	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 118				PCB 123				PCB 126				PCB 156			
						Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual	Conc	TEQ Conc	TEQ Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid	
97320856	FS	Spring Chinook	56	A	Klickitat River	560	0.0560	1.87		14.2	0.00142	0.0473		2.22	0.222	7.40	U	72.5	0.0363	1.21	
97320857	FS	Spring Chinook	56	A	Klickitat River	373	0.0373	1.17		8.36	0.000836	0.0261		2.02	0.202	6.31	U	29.6	0.0148	0.463	
97090980	FS	Steelhead	96		Clearwater River	736.83	0.0737	1.67		12.67	0.00127	0.0288		1.48	0.148	3.36	U	75.99	0.0380	0.864	
97090981	FS	Steelhead	96		Clearwater River	749.56	0.0750	1.97		12.66	0.00127	0.0333		6.49	0.649	17.1		68.56	0.0343	0.902	
97090982	FS	Steelhead	96		Clearwater River	766.86	0.0767	2.02		7.54	0.000754	0.0198		6.48	0.648	17.1		77.07	0.0385	1.01	
97090983	WB	Steelhead	96		Clearwater River	788.95	0.0789	1.38		11.92	0.00119	0.0209		5.95	0.595	10.4		80.79	0.0404	0.709	
97090984	WB	Steelhead	96		Clearwater River	795.54	0.0796	1.35		6.54	0.000654	0.0111		6.63	0.663	11.2		80.84	0.0404	0.685	
97090985	WB	Steelhead	96		Clearwater River	688.42	0.0688	1.21		12.49	0.00125	0.0219		5.85	0.585	10.3		67.41	0.0337	0.591	
97090986	FS	Steelhead	96		Clearwater River	940.64	0.0941	1.88		7.12	0.000712	0.0142		8.93	0.893	17.9		96.12	0.0481	0.961	
97140810	WB	Steelhead	93	A	Snake River	723	0.0723	1.31		18.2	0.00182	0.0331		5.89	0.589	10.7		72.8	0.0364	0.662	
97140811	WB	Steelhead	93	A	Snake River	548	0.0548	0.996		12.8	0.00128	0.0233		4.57	0.457	8.31		52.7	0.0264	0.479	
97140812	WB	Steelhead	93	A	Snake River	724	0.0724	1.96		14.7	0.00147	0.0397		5.57	0.557	15.1		68.8	0.0344	0.930	
97140815	FS	Steelhead	93	A	Snake River	503	0.0503	1.32		11	0.00110	0.0289		3.32	0.332	8.74		45.4	0.0227	0.597	
97140816	FS	Steelhead	93	A	Snake River	644	0.0644	2.01		15.2	0.00152	0.0475		4.98	0.498	15.6		62.2	0.0311	0.972	
97140817	FS	Steelhead	93	A	Snake River	561	0.0561	1.52		13.1	0.00131	0.0354		4.37	0.437	11.8		51.9	0.0260	0.701	
97380978	WB	Steelhead	56		Klickitat River	775	0.0775	0.527		11.1	0.00111	0.00755		5.75	0.575	3.91		80.9	0.0405	0.275	
97380979	WB	Steelhead	56		Klickitat River	497	0.0497	0.360		9.65	0.000965	0.00699		0.83	0.0830	0.601	U	40.6	0.0203	0.147	
97380980	WB	Steelhead	56		Klickitat River	606	0.0606	0.386		9.93	0.000993	0.00632		4.63	0.463	2.95		53.9	0.0270	0.172	
97380990	WB	Steelhead	8	D	Columbia River	587	0.0587	0.462		10	0.00100	0.00787		4.21	0.421	3.31		50.7	0.0254	0.200	
97380991	WB	Steelhead	8	E	Columbia River	539	0.0539	0.337		9.19	0.000919	0.00574		4.07	0.407	2.54		52.7	0.0264	0.165	
97380992	WB	Steelhead	8	F	Columbia River	409	0.0409	0.301		7.07	0.000707	0.00520		2.54	0.254	1.87		33.2	0.0166	0.122	
97380993	FS	Steelhead	8	E	Columbia River	479	0.0479	0.515		7.76	0.000776	0.00834		4.03	0.403	4.33		42.8	0.0214	0.230	
97380994	FS	Steelhead	8	H	Columbia River	408	0.0408	0.439		6.5	0.000650	0.00699		0.5	0.0500	0.538	U	34	0.0170	0.183	
97380995	FS	Steelhead	8	H	Columbia River	436	0.0436	0.641		6.52	0.000652	0.00959		0.5	0.0500	0.735	U	40.1	0.0201	0.295	
97380999	E	Steelhead	8	E	Columbia River	351	0.0351	0.303		5.75	0.000575	0.00496		2.12	0.212	1.83		28	0.0140	0.121	
97390800	FS	Steelhead	56		Klickitat River	582	0.0582	0.719		9.21	0.000921	0.0114		4.39	0.439	5.42		50.9	0.0255	0.314	
97390801	FS	Steelhead	56		Klickitat River	484	0.0484	0.494		7.82	0.000782	0.00798		4.01	0.401	4.09		43.6	0.0218	0.222	
97390802	FS	Steelhead	56		Klickitat River	463	0.0463	0.454		7.57	0.000757	0.00742		4.72	0.472	4.63		44	0.0220	0.216	
98064090	FS	Steelhead	8	D	Columbia River	605	0.0605	1.38		12.1	0.00121	0.0275		5.56	0.556	12.6		58.1	0.0291	0.660	
98064091	FS	Steelhead	8	D	Columbia River	491	0.0491	1.23		8.64	0.000864	0.0216		4.71	0.471	11.8		47	0.0235	0.587	
98064092	FS	Steelhead	8	F	Columbia River	619	0.0619	0.860		11.7	0.00117	0.0162		5.15	0.515	7.15		56.5	0.0283	0.392	
98064093	WB	Steelhead	8	D	Columbia River	788	0.0788	1.16		16.1	0.00161	0.0237		9.03	0.903	13.3		76.5	0.0383	0.563	
98064094	WB	Steelhead	8	F	Columbia River	716	0.0716	0.955		15.6	0.00156	0.0208		5.89	0.589	7.85		63.6	0.0318	0.424	
98064095	WB	Steelhead	8	F	Columbia River	625	0.0625	0.744		12	0.00120	0.0143		5.81	0.581	6.92		55.7	0.0279	0.332	
98124150	WB	Steelhead	48	F	Yakima River	570	0.0570	2.59		25.4	0.00254	0.115		1.08	0.108	4.91	U	54.2	0.0271	1.23	
98124151	WB	Steelhead	48	F	Yakima River	758	0.0758	2.61		13.4	0.00134	0.0462		5.03	0.503	17.3		70.7	0.0354	1.22	
98124152	WB	Steelhead	48	F	Yakima River	418	0.0418	1.90		12.1	0.00121	0.0550		2.11	0.211	9.59		55.4	0.0277	1.26	
98124153	FS	Steelhead	48	F	Yakima River	369	0.0369	1.94		6.29	0.000629	0.0331		0.74	0.0740	3.89	U	39.3	0.0197	1.03	
98124154	FS	Steelhead	48	F	Yakima River	602	0.0602	1.77		12	0.00120	0.0353		3.78	0.378	11.1		61.4	0.0307	0.903	
98124155	FS	Steelhead	48	F	Yakima River	571	0.0571	1.90		11.2	0.00112	0.0373		3.69	0.369	12.3		51.3	0.0257	0.855	
98144100	WB	Steelhead	25		Hood River	760	0.0760	2.81		13.6	0.00136	0.0504		5.71	0.571	21.1		76.4	0.0382	1.41	
98144101	WB	Steelhead	25		Hood River	577	0.0577	1.65		11	0.00110	0.0314		0.67	0.0670	1.91	U	56.2	0.0281	0.803	
98144102	WB	Steelhead	25		Hood River	486	0.0486	1.01		11	0.00110	0.0229		0.95	0.0950	1.98	U	43.2	0.0216	0.450	
98144103	FS	Steelhead	25		Hood River	471	0.0471	2.94		6.86	0.000686	0.0429		3.49	0.349	21.8		44	0.0220	1.38	
98144104	FS	Steelhead	25		Hood River	724	0.0724	3.02		10.6	0.00106	0.0442		5.58	0.558	23.2		80.5	0.0403	1.68	
98144105	FS	Steelhead	25		Hood River	367	0.0367	1.67		7.12	0.000712	0.0324		1.84	0.184	8.36		33.5	0.0168	0.761	
96284741	FS	Walleye	30	B	Umatilla River	740	0.0740	4.93		14.3	0.00143	0.0953		0.7	0.0700	4.67	U	149	0.0745	4.97	
96284742	FS	Walleye	30	B	Umatilla River	632	0.0632	4.21		11.8	0.00118	0.0787		0.67	0.0670	4.47	U	110	0.0550	3.67	
96284743	FS	Walleye	30	B	Umatilla River	618	0.0618	4.75		15.7	0.00157	0.121		0.7	0.0700	5.38	U	108	0.0540	4.15	
96284744	WB	Walleye	30	B	Umatilla River	2630	0.263	3.29		51.3	0.00513	0.0641		1	0.100	1.25	U	800	0.400	5.00	
97490850	WB	Walleye	7	B	Columbia River	10200	1.02	14.8		229	0.0229	0.332		17.9	1.79	25.9		2300	1.15	16.7	

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 118				PCB 123				PCB 126				PCB 156							
						Conc		TEQ Conc	TEQ Lipid Norm	Qual	Conc		TEQ Conc	TEQ Lipid Norm	Qual	Conc		TEQ Conc	TEQ Lipid Norm	Qual	Conc		TEQ Conc	TEQ Lipid Norm	Qual
						ng/kg	ng/kg	ng/kg lipid			ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid		ng/kg	ng/kg	ng/kg lipid
						5190	0.519	6.92			80.8	0.00808	0.108		8.89	0.889	11.9		1120	0.560	7.47				
97490851	WB	Walleye	7	D	Columbia River	2620	0.262	5.46			28.66	0.00287	0.0597		2.85	0.285	5.94	U	839.16	0.420	8.74				
97080811	FW	White Sturgeon	6	C	Columbia River	2260	0.226	5.95			15.36	0.00154	0.0404		2.09	0.209	5.50	U	562.15	0.281	7.40				
97080812	FW	White Sturgeon	6	C	Columbia River	1880	0.188	12.5			23.6	0.00236	0.157		1.52	0.152	10.1	U	495.54	0.248	16.5				
97080813	FW	White Sturgeon	6	C	Columbia River	1810	0.181	5.84			22.4	0.00224	0.0723		1.42	0.142	4.58	U	607.59	0.304	9.80				
97080814	FW	White Sturgeon	6	C	Columbia River	936.8	0.0937	1.77			9.38	0.000938	0.0177		1.59	0.159	3.00	U	379.01	0.190	3.58				
97080815	FW	White Sturgeon	7	A	Columbia River	272.34	0.0272	1.51			4.448	0.000445	0.0247		0.74	0.0740	4.11	U	134.53	0.0673	3.74				
97080816	FW	White Sturgeon	7	A	Columbia River	2730	0.273	3.59			27.3	0.00273	0.0359		2.57	0.257	3.38		551.8	0.276	3.63				
97080817	FW	White Sturgeon	8	F	Columbia River	1000	0.100	2.44			12.44	0.00124	0.0303		2.69	0.269	6.56	U	413.55	0.207	5.04				
97080818	FW	White Sturgeon	8	F	Columbia River	1340	0.134	1.34			20.95	0.00210	0.0210		1.62	0.162	1.62	U	600.62	0.300	3.00				
97080819	FW	White Sturgeon	8	F	Columbia River	969.05	0.0969	1.06			10.32	0.00103	0.0113		1.75	0.175	1.92	U	343.39	0.172	1.89				
97080820	FW	White Sturgeon	8	F	Columbia River	2230	0.223	3.14			15.4	0.00154	0.0217		0.5	0.0500	0.704	U	773	0.387	5.44				
97130800	WB	White Sturgeon	8	E	Columbia River	6240	0.624	8.79			31.2	0.00312	0.0439		4.18	0.418	5.89	U	2160	1.08	15.2				
97130801	WB	White Sturgeon	8	B	Columbia River	7220	0.722	9.38			39.4	0.00394	0.0512		2.61	0.261	3.39	U	2180	1.09	14.2				
97140800	FW	White Sturgeon	13	E	Snake River	2680	0.268	4.12			14.4	0.00144	0.0222		4.04	0.404	6.22	U	693	0.347	5.33				
97140801	FW	White Sturgeon	13	E	Snake River	2500	0.250	4.03			16.7	0.00167	0.0269		4.84	0.484	7.81	U	692	0.346	5.58				
97320850	FW	White Sturgeon	13	F	Snake River	844	0.0844	0.599			11.5	0.00115	0.00816		2.24	0.224	1.59	U	225	0.113	0.798				
97320851	FW	White Sturgeon	13	F	Snake River	5200	0.520	4.86			75.9	0.00759	0.0709		2.71	0.271	2.53	U	1250	0.625	5.84				
97500965	FW	White Sturgeon	9	D	Columbia River	2040	0.204	2.34			30.4	0.00304	0.0349		1.72	0.172	1.98	U	732	0.366	4.21				
97500966	FW	White Sturgeon	9	B	Columbia River	2460	0.246	3.37			35	0.00350	0.0479		1.27	0.127	1.74	U	1390	0.695	9.52				
97500967	FW	White Sturgeon	9	B	Columbia River	2750	0.275	3.57			38.2	0.00382	0.0496		1.55	0.155	2.01	U	1480	0.740	9.61				
97500968	FW	White Sturgeon	9	A	Columbia River	4950	0.495	3.56			93.9	0.00939	0.0676		1.5	0.150	1.08	U	1720	0.860	6.19				
97500969	WB	White Sturgeon	9	A	Columbia River	2670	0.267	2.41			44.1	0.00441	0.0397		1.52	0.152	1.37	U	1130	0.565	5.09				
97500970	WB	White Sturgeon	9	A	Columbia River	4800	0.480	8.14			65.8	0.00658	0.112		1.67	0.167	2.83	U	1750	0.875	14.8				
97500971	WB	White Sturgeon	9	A	Columbia River	3770	0.377	4.96			51.9	0.00519	0.0683		1.78	0.178	2.34	U	1000	0.500	6.58				
98024000	WB	White Sturgeon	9	I	Columbia River	3550	0.355	2.77			61.8	0.00618	0.0483		1.22	0.122	0.953	U	1070	0.535	4.18				
98024001	WB	White Sturgeon	9	F	Columbia River	3640	0.364	6.17			47.5	0.00475	0.0805		1.53	0.153	2.59	U	1550	0.775	13.1				
98024002	FW	White Sturgeon	9	I	Columbia River	13700	1.37	18.8			152	0.0152	0.208		2.07	0.207	2.84	U	3500	1.75	24.0				
98024003	FW	White Sturgeon	9	I	Columbia River	13500	1.35	19.3			173	0.0173	0.247		2.09	0.209	2.99	U	3480	1.74	24.9				

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 157			PCB 167			PCB 169			PCB 189					
						TEQ Lipid			TEQ Lipid			TEQ Lipid			TEQ Lipid					
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual			
96294094	WB	Bridgelip Sucker	48	F	Yakima River	5.46	0.00273	0.0364	U	134	0.00134	0.0179		0.73	0.00730	0.0973	U	29.2	0.00292	0.0389
96294095	WB	Bridgelip Sucker	48	F	Yakima River	4.42	0.00221	0.0233	U	129	0.00129	0.0136		0.82	0.00820	0.0863	U	30.1	0.00301	0.0317
96294096	WB	Bridgelip Sucker	48	F	Yakima River	6.78	0.00339	0.0477	U	188	0.00188	0.0265		5.81	0.0581	0.818		44.5	0.00445	0.0627
97500950	WB	Channel Catfish	8	F	Columbia River	281	0.141	1.07		564	0.00564	0.0431		2.69	0.0269	0.205	U	101	0.0101	0.0771
97500951	WB	Channel Catfish	8	F	Columbia River	98.8	0.0494	0.341		223	0.00223	0.0154		1.82	0.0182	0.126	U	33	0.00330	0.0228
97500952	WB	Channel Catfish	8	F	Columbia River	204	0.102	0.486		405	0.00405	0.0193		2.18	0.0218	0.104	U	67.4	0.00674	0.0321
97500956	FS	Channel Catfish	8	B	Columbia River	165	0.0825	0.400		346	0.00346	0.0168		1.79	0.0179	0.0869	U	58.3	0.00583	0.0283
97500957	FS	Channel Catfish	8	C	Columbia River	356	0.178	1.44		751	0.00751	0.0606		2.57	0.0257	0.207	U	134	0.0134	0.108
97420931	WB	Coho	30		Umatilla River	20	0.0100	0.370		41.6	0.000416	0.0154		1	0.0100	0.370	U	7.58	0.000758	0.0281
97420932	WB	Coho	30		Umatilla River	21.7	0.0109	0.221		48.2	0.000482	0.00984		1	0.0100	0.204	U	7.93	0.000793	0.0162
97420933	WB	Coho	30		Umatilla River	20.7	0.0104	0.241		49.2	0.000492	0.0114		1	0.0100	0.233	U	7.31	0.000731	0.0170
97450966	FS	Coho	30		Umatilla River	25.9	0.0130	0.498		44.8	0.000448	0.0172		1	0.0100	0.385	U	8.78	0.000878	0.0338
97450967	FS	Coho	30		Umatilla River	20.5	0.0103	0.466		50.7	0.000507	0.0230		1.06	0.0106	0.482	U	9.08	0.000908	0.0413
97450968	FS	Coho	30		Umatilla River	20.8	0.0104	0.495		44.9	0.000449	0.0214		1.03	0.0103	0.490	U	7.93	0.000793	0.0378
97450970	E	Coho	30		Umatilla River	19.1	0.00955	0.115		35.3	0.000353	0.00425		1.02	0.0102	0.123	U	5.5	0.000550	0.00663
97450971	E	Coho	30		Umatilla River	23.4	0.0117	0.139		38.3	0.000383	0.00456		1.27	0.0127	0.151	U	6.79	0.000679	0.00808
97450972	E	Coho	30		Umatilla River	17.7	0.00885	0.111		36.5	0.000365	0.00456		1	0.0100	0.125	U	5.12	0.000512	0.00640
97070800	WB	Eulachon	3	B	Columbia River	8.64	0.00432	0.0346		18.23	0.000182	0.00146		0.5	0.00500	0.0400	U	2.46	0.000246	0.00197
97070801	WB	Eulachon	3	B	Columbia River	9.47	0.00474	0.0356		18.42	0.000184	0.00138		0.55	0.00550	0.0414	U	2.33	0.000233	0.00175
97070802	WB	Eulachon	3	B	Columbia River	8.12	0.00406	0.0312		17.16	0.000172	0.00132		0.5	0.00500	0.0385	U	2.33	0.000233	0.00179
97380975	WB	Fall Chinook	56		Klickitat River	8.39	0.00420	0.0407		18	0.000180	0.00175		1	0.0100	0.0971	U	2.45	0.000245	0.00238
97380976	WB	Fall Chinook	56		Klickitat River	8.51	0.00426	0.0426		17.2	0.000172	0.00172		1	0.0100	0.100	U	2.37	0.000237	0.00237
97380977	WB	Fall Chinook	56		Klickitat River	7.09	0.00355	0.0362		13.3	0.000133	0.00136		1	0.0100	0.102	U	1.77	0.000177	0.00181
97380981	FS	Fall Chinook	56		Klickitat River	4.09	0.00205	0.0249		13.5	0.000135	0.00165		1	0.0100	0.122	U	1.55	0.000155	0.00189
97380982	FS	Fall Chinook	56		Klickitat River	7.01	0.00351	0.0331		20.4	0.000204	0.00192		1	0.0100	0.0943	U	2.56	0.000256	0.00242
97380983	FS	Fall Chinook	56		Klickitat River	5.39	0.00270	0.0396		13.2	0.000132	0.00194		1	0.0100	0.147	U	1	0.000100	0.00147
97380984	WB	Fall Chinook	8	G	Columbia River	7.62	0.00381	0.0318		15.9	0.000159	0.00132		1	0.0100	0.0833	U	2.15	0.000215	0.00179
97380985	WB	Fall Chinook	8	G	Columbia River	5.71	0.00286	0.0260		13.5	0.000135	0.00123		1	0.0100	0.0909	U	1	0.000100	0.000909
97380986	WB	Fall Chinook	8	G	Columbia River	6.7	0.00335	0.0319		15	0.000150	0.00143		1	0.0100	0.0952	U	1.27	0.000127	0.00121
97380987	FS	Fall Chinook	8	G	Columbia River	9.26	0.00463	0.0445		21.5	0.000215	0.00207		1	0.0100	0.0962	U	3.06	0.000306	0.00294
97380988	FS	Fall Chinook	8	D	Columbia River	14.7	0.00735	0.0728		25.4	0.000254	0.00251		1	0.0100	0.0990	U	4.89	0.000489	0.00484
97380989	FS	Fall Chinook	8	D	Columbia River	10.4	0.00520	0.0553		23.8	0.000238	0.00253		1	0.0100	0.106	U	3.42	0.000342	0.00364
97380987	FS	Fall Chinook	8	D	Columbia River	12	0.00600	0.0619		24.8	0.000248	0.00256		1	0.0100	0.103	U	3.84	0.000384	0.00396
97380998	E	Fall Chinook	8	D	Columbia River	4.31	0.00216	0.0144		9.93	0.000993	0.000662		1	0.0100	0.0667	U	1	0.000100	0.000667
97400925	WB	Fall Chinook	14		Columbia River	19.6	0.00980	0.111		35.7	0.000357	0.00406		1	0.0100	0.114	U	1	0.000100	0.00114
97400926	WB	Fall Chinook	14		Columbia River	18.7	0.00935	0.126		33.2	0.000332	0.00449		1	0.0100	0.135	U	4.33	0.000433	0.00585
97400927	WB	Fall Chinook	14		Columbia River	17.9	0.00895	0.118		31.2	0.000312	0.00411		1	0.0100	0.132	U	2.92	0.000292	0.00384
97400928	FS	Fall Chinook	14		Columbia River	13.6	0.00680	0.0971		28.6	0.000286	0.00409		1	0.0100	0.143	U	2.32	0.000232	0.00331
97400929	FS	Fall Chinook	14		Columbia River	13.7	0.00685	0.125		29.3	0.000293	0.00533		1	0.0100	0.182	U	2.73	0.000273	0.00496
97400930	FS	Fall Chinook	14		Columbia River	17.8	0.00890	0.127		35.7	0.000357	0.00510		1	0.0100	0.143	U	3.05	0.000305	0.00436
97420925	WB	Fall Chinook	30		Umatilla River	44.9	0.0225	0.374		77.7	0.000777	0.0129		1.21	0.0121	0.202	U	14.2	0.00142	0.0237
97420926	WB	Fall Chinook	30		Umatilla River	11.1	0.00555	0.101		23.9	0.000239	0.00435		1	0.0100	0.182	U	3.37	0.000337	0.00613
97420927	WB	Fall Chinook	30		Umatilla River	5.33	0.00267	0.0459		12.8	0.000128	0.00221		1	0.0100	0.172	U	1.72	0.000172	0.00297
97420928	FS	Fall Chinook	30		Umatilla River	9.75	0.00488	0.135		16.8	0.000168	0.00467		1	0.0100	0.278	U	2.66	0.000266	0.00739
97420929	FS	Fall Chinook	30		Umatilla River	11.5	0.00575	0.169		25	0.000250	0.00735		1	0.0100	0.294	U	4.14	0.000414	0.0122
97420930	FS	Fall Chinook	30		Umatilla River	4.06	0.00203	0.0846		10.1	0.000101	0.00421		1	0.0100	0.417	U	1	0.000100	0.00417
97420934	WB	Fall Chinook	48	F	Yakima River	23.5	0.0118	0.181		37.6	0.000376	0.00578		1	0.0100	0.154	U	6.78	0.000678	0.0104
97420935	WB	Fall Chinook	48	F	Yakima River	11.1	0.00555	0.0974		24.1	0.000241	0.00423		1	0.0100	0.175	U	3.45	0.000345	0.00605
97420936	WB	Fall Chinook	48	F	Yakima River	10.8	0.00540	0.0720		23.1	0.000231	0.00308		1	0.0100	0.133	U	1	0.000100	0.00133
97420937	FS	Fall Chinook	48	F	Yakima River	13.7	0.00685	0.196		25.1	0.000251	0.00717		1	0.0100	0.286	U	5.26	0.000526	0.0150
97420938	FS	Fall Chinook	48	F	Yakima River	9.9	0.00495	0.160		23	0.000230	0.00742		1	0.0100	0.323	U	3.72	0.000372	0.0120

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 157			PCB 167			PCB 169			PCB 189					
						TEQ Lipid			TEQ Lipid			TEQ Lipid			TEQ Lipid					
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual			
97420939	FS	Fall Chinook	48	F	Yakima River	10.4	0.00520	0.102	U	26.5	0.000265	0.00520	U	1	0.0100	0.196	U	3.53	0.000353	0.00692
97420940	FS	Fall Chinook	48	F	Yakima River	14.3	0.00715	0.204	U	25.6	0.000256	0.00731	U	1	0.0100	0.286	U	5.08	0.000508	0.0145
96284795	WB	Largescale Sucker	30	A	Umatilla River	0.87	0.000435	0.0124	U	90.8	0.000908	0.0259	U	1.74	0.0174	0.497	U	21.6	0.00216	0.0617
96284796	WB	Largescale Sucker	30	A	Umatilla River	4.31	0.00216	0.0616	U	66.9	0.000669	0.0191	U	0.93	0.00930	0.266	U	13.9	0.00139	0.0397
96284797	WB	Largescale Sucker	30	A	Umatilla River	0.96	0.000480	0.0112	U	75.9	0.000759	0.0177	U	2.46	0.0246	0.572	U	18	0.00180	0.0419
96284798	FS	Largescale Sucker	30	A	Umatilla River	2.07	0.00104	0.0862	U	171	0.00171	0.142	U	1.07	0.0107	0.892	U	28.9	0.00289	0.241
96294091	WB	Largescale Sucker	48	F	Yakima River	4.55	0.00228	0.0438	U	204	0.00204	0.0392	U	0.8	0.00800	0.154	U	44.7	0.00447	0.0860
96294092	WB	Largescale Sucker	48	F	Yakima River	3.66	0.00183	0.0523	U	304	0.00304	0.0869	U	3.83	0.0383	1.09	U	81.4	0.00814	0.233
96294093	WB	Largescale Sucker	48	F	Yakima River	9.5	0.00475	0.122	U	333	0.00333	0.0854	U	3.15	0.0315	0.808	U	85.9	0.00859	0.220
96374700	FS	Largescale Sucker	30	A	Umatilla River	1.27	0.000635	0.0529	U	98.2	0.000982	0.0818	U	0.88	0.00880	0.733	U	20	0.00200	0.167
96374701	FS	Largescale Sucker	30	A	Umatilla River	1.14	0.000570	0.0407	U	61.8	0.000618	0.0441	U	1.14	0.0114	0.814	U	13.6	0.00136	0.0971
96374702	FS	Largescale Sucker	30	A	Umatilla River	1.43	0.000715	0.0447	U	73.8	0.000738	0.0461	U	0.81	0.00810	0.506	U	15.5	0.00155	0.0969
96374793	WB	Largescale Sucker	49		Yakima River	111	0.0555	1.18		218	0.00218	0.0464		2.17	0.0217	0.462	U	22.1	0.00221	0.0470
96374794	WB	Largescale Sucker	49		Yakima River	111	0.0555	0.694		249	0.00249	0.0311		2.37	0.0237	0.296	U	28	0.00280	0.0350
96374795	WB	Largescale Sucker	49		Yakima River	83.8	0.0419	0.665		201	0.00201	0.0319		0.92	0.00920	0.146	U	22.5	0.00225	0.0357
96374796	FS	Largescale Sucker	49		Yakima River	1.07	0.000535	0.0214		77.7	0.000777	0.0311		0.53	0.00530	0.212	U	10.9	0.00109	0.0436
96374797	FS	Largescale Sucker	49		Yakima River	19	0.00950	0.317		43.4	0.000434	0.0145		0.54	0.00540	0.180	U	4.91	0.000491	0.0164
96374798	FS	Largescale Sucker	49		Yakima River	40.2	0.0201	0.874		87.3	0.000873	0.0380		0.93	0.00930	0.404	U	11.2	0.00112	0.0487
97080800	WB	Largescale Sucker	98	D	Deschutes River	85.15	0.0426	0.526		181.11	0.00181	0.0224		1	0.0100	0.123	U	22.57	0.00226	0.0279
97080801	WB	Largescale Sucker	98	C	Deschutes River	71.43	0.0357	0.510		168.75	0.00169	0.0241		1	0.0100	0.143	U	28.71	0.00287	0.0410
97080802	WB	Largescale Sucker	98	B	Deschutes River	74.13	0.0371	0.356		168.89	0.00169	0.0162		1	0.0100	0.0962	U	26.7	0.00267	0.0257
97080824	FS	Largescale Sucker	98	E	Deschutes River	23.38	0.0117	0.365		55.36	0.000554	0.0173		0.5	0.00500	0.156	U	7.53	0.000753	0.0235
97080825	FS	Largescale Sucker	98	C	Deschutes River	26.62	0.0133	0.380		69.95	0.000700	0.0200		0.5	0.00500	0.143	U	10.19	0.00102	0.0291
97080990	FS	Largescale Sucker	98	A	Deschutes River	43.1	0.0216	0.490		98.75	0.000988	0.0224		1.5	0.0150	0.341	U	14.85	0.00149	0.0338
97304975	WB	Largescale Sucker	9	E	Columbia River	525	0.263	6.73		1170	0.0117	0.300		2.3	0.0230	0.590	U	198	0.0198	0.508
97304976	WB	Largescale Sucker	9	E	Columbia River	203	0.102	3.17		452	0.00452	0.141		1.33	0.0133	0.416	U	77.3	0.00773	0.242
97304977	WB	Largescale Sucker	9	F	Columbia River	318	0.159	6.62		783	0.00783	0.326		1.46	0.0146	0.608	U	182	0.0182	0.758
97304978	FS	Largescale Sucker	9	F	Columbia River	272	0.136	7.16		601	0.00601	0.316		1.45	0.0145	0.763	U	111	0.0111	0.584
97304979	FS	Largescale Sucker	9	H	Columbia River	137	0.0685	3.61		284	0.00284	0.149		2.43	0.0243	1.28	U	61	0.00610	0.321
97304980	FS	Largescale Sucker	9	H	Columbia River	218	0.109	7.79		478	0.00478	0.341		1.26	0.0126	0.900	U	96.1	0.00961	0.686
97500953	WB	Largescale Sucker	8	F	Columbia River	89.3	0.0447	0.698		199	0.00199	0.0311		1.43	0.0143	0.223	U	30.3	0.00303	0.0473
97500954	WB	Largescale Sucker	8	I	Columbia River	89.7	0.0449	0.690		187	0.00187	0.0288		1.22	0.0122	0.188	U	30.4	0.00304	0.0468
98164075	WB	Largescale Sucker	48	H	Yakima River	111	0.0555	0.910		312	0.00312	0.0511		3.67	0.0367	0.602	U	85.7	0.00857	0.140
98164076	WB	Largescale Sucker	48	H	Yakima River	90	0.0450	0.937		336	0.00336	0.0700		2.44	0.0244	0.508	U	106	0.0106	0.221
98164077	WB	Largescale Sucker	48	J	Yakima River	124	0.0620	1.48		381	0.00381	0.0907		20.5	0.205	4.88	U	97.2	0.00972	0.231
98164078	FS	Largescale Sucker	48	J	Yakima River	80.1	0.0401	1.43		247	0.00247	0.0882		3.41	0.0341	1.22	U	75.5	0.00755	0.270
98164079	FS	Largescale Sucker	48	I	Yakima River	82	0.0410	1.95		332	0.00332	0.158		3.46	0.0346	1.65	U	110	0.0110	0.524
98164080	FS	Largescale Sucker	48	I	Yakima River	57.7	0.0289	0.824		203	0.00203	0.0580		2.6	0.0260	0.743	U	62.5	0.00625	0.179
98184125	WB	Largescale Sucker	13	E	Snake River	29.8	0.0149	0.298		72.8	0.00728	0.0146		4.03	0.0403	0.806	U	11.6	0.00116	0.0232
98184126	WB	Largescale Sucker	13	E	Snake River	22.7	0.0114	0.420		52.2	0.000522	0.0193		2.32	0.0232	0.859	U	8	0.000800	0.0296
98184127	WB	Largescale Sucker	13	C	Snake River	30.4	0.0152	0.422		63.8	0.000638	0.0177		2.46	0.0246	0.683	U	10.3	0.00103	0.0286
98184128	FS	Largescale Sucker	13	C	Snake River	17.5	0.00875	0.438		46.6	0.000466	0.0233		1.99	0.0199	0.995	U	7.89	0.000789	0.0395
98184129	FS	Largescale Sucker	13	D	Snake River	18.3	0.00915	0.538		50.4	0.000504	0.0296		2.36	0.0236	1.39	U	9.86	0.00100	0.0580
98184130	FS	Largescale Sucker	13	D	Snake River	15.2	0.00760	0.543		39	0.000390	0.0279		89.2	0.892	63.7	U	7.94	0.000794	0.0567
96284904	WB	Mountain Whitefish	101		Umatilla River	2.19	0.00110	0.0113	U	118	0.00118	0.0122		0.99	0.00990	0.102		27.4	0.00274	0.0282
96284905	WB	Mountain Whitefish	101	A	Umatilla River	0.68	0.000340	0.00296	U	55.5	0.000555	0.00483		0.54	0.00540	0.0470	U	16.9	0.00169	0.0147
96284906	WB	Mountain Whitefish	101	B	Thomas Creek	0.89	0.000445	0.00412	U	85.6	0.000856	0.00793		2.75	0.0275	0.255	U	22.7	0.00227	0.0210
96284907	FS	Mountain Whitefish	101	A	Umatilla River	65.1	0.0326	0.542		77.9	0.000779	0.0130		4.38	0.0438	0.730		19.9	0.00199	0.0332
96284908	FS	Mountain Whitefish	101	A	Umatilla River	0.73	0.000365	0.000652	U	21.2	0.000212	0.00379		0.5	0.00500	0.0893	U	6.11	0.000611	0.0109
96284909	FS	Mountain Whitefish	101		Umatilla River	1.12	0.000560	0.00903	U	27	0.000270	0.00435		0.61	0.00610	0.0984	U	6.34	0.000634	0.0102
97080804	WB	Mountain Whitefish	98	D	Deschutes River	74.1	0.0371	0.862		144.7	0.00145	0.0337		1.39	0.0139	0.323	U	13.55	0.00136	0.0315

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 157			PCB 167			PCB 169			PCB 189					
						TEQ Lipid			TEQ Lipid			TEQ Lipid			TEQ Lipid					
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual			
97080805	WB	Mountain Whitefish	98	C	Deschutes River	84.85	0.0424	0.943		171.54	0.00172	0.0381		1.85	0.0185	0.411	U	18.17	0.00182	0.0404
97080806	WB	Mountain Whitefish	98	B	Deschutes River	73.81	0.0369	0.724		146.93	0.00147	0.0288		1.37	0.0137	0.269	U	15.24	0.00152	0.0299
97080807	FS	Mountain Whitefish	98	A	Deschutes River	57.8	0.0289	1.20		115.03	0.00115	0.0479		3	0.0300	1.25	U	12.5	0.00125	0.0521
97080808	FS	Mountain Whitefish	98	A	Deschutes River	61.92	0.0310	1.19		124.9	0.00125	0.0480		1.12	0.0112	0.431	U	13.37	0.00134	0.0514
97080809	FS	Mountain Whitefish	98	B	Deschutes River	69.74	0.0349	2.91		133.07	0.00133	0.111		1.17	0.0117	0.975	U	15.4	0.00154	0.128
97080810	FS	Mountain Whitefish	98	A	Deschutes River	72.34	0.0362	1.25		132.02	0.00132	0.0455		1.37	0.0137	0.472	U	15.16	0.00152	0.0523
97470990	WB	Mountain Whitefish	9	Q	Columbia River	442	0.221	2.73		620	0.00620	0.0765		5.24	0.0524	0.647	U	113	0.0113	0.140
97470991	WB	Mountain Whitefish	9	Q	Columbia River	353	0.177	1.86		540	0.00540	0.0568		5.09	0.0509	0.536	U	93.3	0.00933	0.0982
97470992	WB	Mountain Whitefish	9	P	Columbia River	570	0.285	3.52		704	0.00704	0.0869		5.09	0.0509	0.628	U	131	0.0131	0.162
97470993	FS	Mountain Whitefish	9	O	Columbia River	645	0.323	4.67		981	0.00981	0.142		7.15	0.0715	1.04	U	157	0.0157	0.228
97470994	FS	Mountain Whitefish	9	O	Columbia River	729	0.365	4.73		1000	0.0100	0.130		6.4	0.0640	0.831	U	158	0.0158	0.205
97470995	FS	Mountain Whitefish	9	N	Columbia River	2950	1.48	19.9		4050	0.0405	0.547		15.8	0.158	2.14	U	405	0.0405	0.547
98124160	WB	Mountain Whitefish	48	F	Yakima River	309	0.155	1.64		725	0.00725	0.0771		2.46	0.0246	0.262	U	170	0.0170	0.181
98124161	WB	Mountain Whitefish	48	F	Yakima River	298	0.149	1.84		743	0.00743	0.0917		2.96	0.0296	0.365	U	253	0.0253	0.312
98124162	WB	Mountain Whitefish	48	F	Yakima River	212	0.106	1.02		513	0.00513	0.0493		3.87	0.0387	0.372	U	94.8	0.00948	0.0912
98124165	FS	Mountain Whitefish	48	F	Yakima River	281	0.141	1.67		578	0.00578	0.0688		3.79	0.0379	0.451	U	109	0.0109	0.130
98124166	FS	Mountain Whitefish	48	F	Yakima River	261	0.131	1.69		641	0.00641	0.0832		2.42	0.0242	0.314	U	144	0.0144	0.187
98124167	FS	Mountain Whitefish	48	F	Yakima River	289	0.145	1.68		701	0.00701	0.0815		3.5	0.0350	0.407	U	175	0.0175	0.203
96254770	WB	Pacific lamprey	21		Willamette River	1.96	0.000980	0.00458	U	185	0.00185	0.00864		9.96	0.0996	0.465	U	18.4	0.00184	0.00860
96254771	WB	Pacific lamprey	21		Willamette River	2.81	0.00141	0.00717	U	185	0.00185	0.00944		5.88	0.0588	0.300	U	20.1	0.00201	0.0103
96254772	WB	Pacific lamprey	21		Willamette River	3.28	0.00164	0.00872	U	186	0.00186	0.00989		1.78	0.0178	0.947	U	21.1	0.00211	0.0112
97220910	WB	Pacific lamprey	21		Willamette River	39.1	0.0196	0.135		140	0.00140	0.00966		1	0.0100	0.0690	U	15.1	0.00151	0.0104
97220911	WB	Pacific lamprey	21		Willamette River	46.4	0.0232	0.130		164	0.00164	0.00916		1	0.0100	0.0559	U	21.2	0.00212	0.0118
97220912	WB	Pacific lamprey	21		Willamette River	37	0.0185	0.101		125	0.00125	0.00683		1	0.0100	0.0546	U	13.7	0.00137	0.00749
97220915	FS	Pacific lamprey	21		Willamette River	56.8	0.0284	0.144		170	0.00170	0.00863		1	0.0100	0.0508	U	20.3	0.00203	0.0103
97220916	FS	Pacific lamprey	21		Willamette River	45	0.0225	0.121		163	0.00163	0.00876		1	0.0100	0.0538	U	19.8	0.00198	0.0106
97220917	FS	Pacific lamprey	21		Willamette River	50.1	0.0251	0.115		170	0.00170	0.00780		1	0.0100	0.0459	U	19.4	0.00194	0.00890
97320858	WB	Pacific lamprey	24		Fifteen Mile Creek	75.7	0.0379	0.218		219	0.00219	0.0126		2.07	0.0207	0.119	U	27.2	0.00272	0.0156
97320859	WB	Pacific lamprey	24		Fifteen Mile Creek	93.9	0.0470	0.252		276	0.00276	0.0148		1.23	0.0123	0.0661	U	28.4	0.00284	0.0153
97320860	WB	Pacific lamprey	24		Fifteen Mile Creek	69.3	0.0347	0.182		249	0.00249	0.0131		2.26	0.0226	0.119	U	23.2	0.00232	0.0122
96284845	WB	Rainbow Trout	101		Umatilla River	0.5	0.000250	0.00521	U	7.64	0.0000764	0.00159		0.5	0.00500	0.104	U	0.5	0.00005	0.00104
96284846	WB	Rainbow Trout	101	B	Thomas Creek	0.6	0.000300	0.00667	U	6.62	0.0000662	0.00147		0.5	0.00500	0.111	U	1.29	0.000129	0.00287
96284990	WB	Rainbow Trout	101	C	Meacham Creek	0.59	0.000295	0.0105	U	40.3	0.000403	0.0144		0.5	0.00500	0.179	U	6.85	0.000685	0.0245
96284991	WB	Rainbow Trout	101	C	Meacham Creek	1.03	0.000515	0.0156	U	40.4	0.000404	0.0122		1.17	0.0117	0.355	U	0.5	0.00005	0.00152
96374730	FS	Rainbow Trout	49		Yakima River	39.2	0.0196	0.576		72.9	0.00729	0.0214		0.72	0.00720	0.212	U	7.83	0.00783	0.0230
96374731	FS	Rainbow Trout	49		Yakima River	36.6	0.0183	0.572		68.8	0.00688	0.0215		0.63	0.00630	0.197	U	7.45	0.00745	0.0233
96374732	FS	Rainbow Trout	49		Yakima River	41.8	0.0209	0.565		78.6	0.00786	0.0212		0.69	0.00690	0.186	U	8.58	0.00858	0.0232
96374765	WB	Rainbow Trout	49		Yakima River	57.8	0.0289	0.425		112	0.00112	0.0165		0.93	0.00930	0.137	U	11.4	0.00114	0.0168
96374766	WB	Rainbow Trout	49		Yakima River	52.7	0.0264	0.454		101	0.00101	0.0174		0.5	0.00500	0.0862	U	11.4	0.00114	0.0197
96374767	WB	Rainbow Trout	49		Yakima River	54.2	0.0271	0.467		103	0.00103	0.0178		0.72	0.00720	0.124	U	11.5	0.00115	0.0198
97080803	WB	Rainbow Trout	98	A	Deschutes River	47.12	0.0236	0.491		104.89	0.00105	0.0219		1.03	0.0103	0.215	U	10.94	0.00109	0.0228
97080821	WB	Rainbow Trout	98	E	Deschutes River	43.26	0.0216	0.503		102.51	0.00103	0.0238		0.93	0.00930	0.216	U	10.88	0.00109	0.0253
97080822	WB	Rainbow Trout	98	D	Deschutes River	46.63	0.0233	0.555		104.39	0.00104	0.0249		0.88	0.00880	0.210	U	11.06	0.00111	0.0263
97080823	FS	Rainbow Trout	98	B	Deschutes River	26.66	0.0133	0.417		61.74	0.000617	0.0193		0.65	0.00650	0.203	U	6.98	0.000698	0.0218
97170950	FS	Rainbow Trout	98	E	Deschutes River	32.1	0.0161	0.459		73.9	0.000739	0.0211		1	0.0100	0.286	U	7.41	0.000741	0.0212
97170951	FS	Rainbow Trout	98	D	Deschutes River	38.9	0.0195	0.627		88.8	0.000888	0.0286		1.1	0.0110	0.355	U	9.82	0.000982	0.0317
97170952	FS	Rainbow Trout	98	C	Deschutes River	31.1	0.0156	0.486		71.5	0.000715	0.0223		1	0.0100	0.313	U	7.72	0.000772	0.0241
97330975	WB	Rainbow Trout	56	B	Klickitat River	16.9	0.00845	0.134		39.3	0.000393	0.00624		1	0.0100	0.159	U	7.51	0.000751	0.0119
97330976	WB	Rainbow Trout	56	F	Klickitat River	4.67	0.00234	0.0316		12.2	0.000122	0.00165		1	0.0100	0.135	U	2.51	0.000251	0.00339
97200840	WB	Spring Chinook	30		Umatilla River	14.8	0.00740	0.0433		33.8	0.000338	0.00198		1.1	0.0110	0.0643	U	3.41	0.000341	0.00199
97200841	WB	Spring Chinook	30		Umatilla River	11.1	0.00555	0.0363		27.7	0.000277	0.00181		1	0.0100	0.0654	U	2.61	0.000261	0.00171

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 157			PCB 167			PCB 169			PCB 189					
						TEQ Lipid			TEQ Lipid			TEQ Lipid			TEQ Lipid					
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual			
97200842	WB	Spring Chinook	30		Umatilla River	13.5	0.00675	0.0441		32.2	0.000322	0.00210		1	0.0100	0.0654	U	2.96	0.000296	0.00193
97200843	FS	Spring Chinook	30		Umatilla River	11.7	0.00585	0.0370		29.2	0.000292	0.00185		1	0.0100	0.0633	U	2.8	0.000280	0.00177
97200844	FS	Spring Chinook	30		Umatilla River	12.1	0.00605	0.0451		28.5	0.000285	0.00213		1	0.0100	0.0746	U	3.15	0.000315	0.00235
97200845	FS	Spring Chinook	30		Umatilla River	11.2	0.00560	0.0366		30.3	0.000303	0.00198		1.16	0.0116	0.0758	U	2.91	0.000291	0.00190
97200846	E	Spring Chinook	30		Umatilla River	11	0.00550	0.0302		17.8	0.000178	0.000978		1	0.0100	0.0549	U	1.26	0.000126	0.000692
97200847	E	Spring Chinook	30		Umatilla River	7.68	0.00384	0.0203		16.1	0.000161	0.000852		1	0.0100	0.0529	U	1.46	0.000146	0.000772
97200848	E	Spring Chinook	30		Umatilla River	6.98	0.00349	0.0190		17.4	0.000174	0.000946		1	0.0100	0.0543	U	1.66	0.000166	0.000902
97220900	WB	Spring Chinook	48	G	Yakima River	11.3	0.00565	0.0382		27.6	0.000276	0.00186		1	0.0100	0.0676	U	2.45	0.000245	0.00166
97220901	WB	Spring Chinook	48	G	Yakima River	13.3	0.00665	0.0493		28.8	0.000288	0.00213		1	0.0100	0.0741	U	2.6	0.000260	0.00193
97220902	WB	Spring Chinook	48	G	Yakima River	12.2	0.00610	0.0407		29.3	0.000293	0.00195		1.27	0.0127	0.0847	U	2.83	0.000283	0.00189
97220903	FS	Spring Chinook	48	G	Yakima River	11.4	0.00570	0.0479		30.2	0.000302	0.00254		1	0.0100	0.0840	U	2.77	0.000277	0.00233
97220904	FS	Spring Chinook	48	G	Yakima River	10.3	0.00515	0.0477		30.3	0.000303	0.00281		1.29	0.0129	0.119	U	2.74	0.000274	0.00254
97220905	FS	Spring Chinook	48	G	Yakima River	10.3	0.00515	0.0337		29	0.000290	0.00190		1.18	0.0118	0.0771	U	2.65	0.000265	0.00173
97250800	WB	Spring Chinook	94		Looking Glass Creek	10.4	0.00520	0.0416		27.7	0.000277	0.00222		1	0.0100	0.0800	U	1	0.000100	0.000800
97250801	WB	Spring Chinook	94		Looking Glass Creek	11.7	0.00585	0.0412		28.7	0.000287	0.00202		1	0.0100	0.0704	U	2.15	0.000215	0.00151
97250802	WB	Spring Chinook	94		Looking Glass Creek	12.1	0.00605	0.0451		32.6	0.000326	0.00243		1.08	0.0108	0.0806	U	2.92	0.000292	0.00218
97250803	FS	Spring Chinook	94		Looking Glass Creek	10.7	0.00535	0.0500		27.9	0.000279	0.00261		1	0.0100	0.0935	U	2.9	0.000290	0.00271
97250804	FS	Spring Chinook	94		Looking Glass Creek	12.4	0.00620	0.0569		28	0.000280	0.00257		1	0.0100	0.0917	U	2.69	0.000269	0.00247
97250805	FS	Spring Chinook	94		Looking Glass Creek	11.1	0.00555	0.0437		28.3	0.000283	0.00223		1	0.0100	0.0787	U	2.57	0.000257	0.00202
97250806	FS	Spring Chinook	94		Looking Glass Creek	10.6	0.00530	0.0438		26.4	0.000264	0.00218		1	0.0100	0.0826	U	2.28	0.000228	0.00188
97250807	E	Spring Chinook	94		Looking Glass Creek	9.36	0.00468	0.0250		21	0.000210	0.00112		1	0.0100	0.0535	U	2.1	0.000210	0.00112
97250808	E	Spring Chinook	94		Looking Glass Creek	8.37	0.00419	0.0214		21.5	0.000215	0.00110		1	0.0100	0.0510	U	1.68	0.000168	0.000857
97250809	E	Spring Chinook	94		Looking Glass Creek	7.96	0.00398	0.0219		18.6	0.000186	0.00102		1	0.0100	0.0549	U	1.25	0.000125	0.000687
97250811	WB	Spring Chinook	51		Icicle Creek	12.4	0.00620	0.0554		29.7	0.000297	0.00265		1	0.0100	0.0893	U	2.87	0.000287	0.00256
97250812	WB	Spring Chinook	51		Icicle Creek	13.7	0.00685	0.0581		33.3	0.000333	0.00282		1.11	0.0111	0.0941	U	3.29	0.000329	0.00279
97250813	WB	Spring Chinook	51		Icicle Creek	9.98	0.00499	0.0494		27.5	0.000275	0.00272		1	0.0100	0.0990	U	2.61	0.000261	0.00258
97250814	FS	Spring Chinook	51		Icicle Creek	9.86	0.00493	0.0536		24.7	0.000247	0.00268		1	0.0100	0.109	U	2.58	0.000258	0.00280
97250815	FS	Spring Chinook	51		Icicle Creek	11.7	0.00585	0.0665		28.8	0.000288	0.00327		1.1	0.0110	0.125	U	1	0.000100	0.00114
97250816	FS	Spring Chinook	51		Icicle Creek	11.1	0.00555	0.0631		29.6	0.000296	0.00336		1.17	0.0117	0.133	U	3.62	0.000362	0.00411
97250820	WB	Spring Chinook	63		Wind River	9.65	0.00483	0.0473		27	0.000270	0.00265		1	0.0100	0.0980	U	2.58	0.000258	0.00253
97250821	WB	Spring Chinook	63		Wind River	9.74	0.00487	0.0396		25.9	0.000259	0.00211		1	0.0100	0.0813	U	2.7	0.000270	0.00220
97250822	WB	Spring Chinook	63		Wind River	10.3	0.00515	0.0440		26.7	0.000267	0.00228		1	0.0100	0.0855	U	2.33	0.000233	0.00199
97250823	FS	Spring Chinook	63		Wind River	10.1	0.00505	0.0701		25.6	0.000256	0.00356		1	0.0100	0.139	U	2.42	0.000242	0.00336
97250824	FS	Spring Chinook	63		Wind River	11.4	0.00570	0.0600		28	0.000280	0.00295		1	0.0100	0.105	U	2.79	0.000279	0.00294
97250825	FS	Spring Chinook	63		Wind River	9.75	0.00488	0.0508		25.9	0.000259	0.00270		1.16	0.0116	0.121	U	2.31	0.000231	0.00241
97260975	WB	Spring Chinook	62		Little White Salmon River	11.5	0.00575	0.0439		27.8	0.000278	0.00212		1.53	0.0153	0.117	U	1	0.000100	0.000763
97260976	WB	Spring Chinook	62		Little White Salmon River	11.8	0.00590	0.0541		27.5	0.000275	0.00252		1.14	0.0114	0.105	U	2.89	0.000289	0.00265
97260977	WB	Spring Chinook	62		Little White Salmon River	15.9	0.00795	0.0723		30.9	0.000309	0.00281		1.09	0.0109	0.0991	U	1	0.000100	0.000909
97260978	FS	Spring Chinook	62		Little White Salmon River	12.6	0.00630	0.0677		27.2	0.000272	0.00292		1.22	0.0122	0.131	U	2.7	0.000270	0.00290
97260979	FS	Spring Chinook	62		Little White Salmon River	15.2	0.00760	0.0691		28.4	0.000284	0.00258		1.14	0.0114	0.104	U	1	0.000100	0.000909
97260980	FS	Spring Chinook	62		Little White Salmon River	10.5	0.00525	0.0541		26.9	0.000269	0.00277		1.6	0.0160	0.165	U	2.45	0.000245	0.00253
97270900	WB	Spring Chinook	21	B	Middle Fork Willamette River	15.2	0.00760	0.107		31.5	0.000315	0.00444		1.39	0.0139	0.196	U	4.82	0.000482	0.00679
97270901	WB	Spring Chinook	21	B	Middle Fork Willamette River	13.2	0.00660	0.0930		26.4	0.000264	0.00372		1.01	0.0101	0.142	U	3.62	0.000362	0.00510
97270902	WB	Spring Chinook	21	B	Middle Fork Willamette River	13.2	0.00660	0.0786		25.6	0.000256	0.00305		1.59	0.0159	0.189	U	1.03	0.000103	0.00123
97270903	FS	Spring Chinook	21	B	Middle Fork Willamette River	7.09	0.00355	0.0709		18.9	0.000189	0.00378		1.02	0.0102	0.204	U	1.14	0.000114	0.00228
97270904	FS	Spring Chinook	21	B	Middle Fork Willamette River	8.38	0.00419	0.0762		19.8	0.000198	0.00360		0.73	0.00730	0.133	U	3.66	0.000366	0.00665
97270905	FS	Spring Chinook	21	B	Middle Fork Willamette River	13	0.00650	0.0915		22.5	0.000225	0.00317		1	0.0100	0.141	U	4.06	0.000406	0.00572
97320852	WB	Spring Chinook	56	A	Klickitat River	16.9	0.00845	0.201		37.8	0.000378	0.00900		1.09	0.0109	0.260	U	5.07	0.000507	0.0121
97320853	WB	Spring Chinook	56	A	Klickitat River	29.3	0.0147	0.299		47.9	0.000479	0.00978		1.6	0.0160	0.327	U	7.21	0.000721	0.0147
97320854	WB	Spring Chinook	56	A	Klickitat River	20.6	0.0103	0.224		39.4	0.000394	0.00857		2.69	0.0269	0.585	U	4.74	0.000474	0.0103
97320855	FS	Spring Chinook	56	A	Klickitat River	8.99	0.00450	0.204		19	0.000190	0.00864		1.27	0.0127	0.577	U	1.72	0.000172	0.00782

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 157			PCB 167			PCB 169			PCB 189					
						TEQ Lipid			TEQ Lipid			TEQ Lipid			TEQ Lipid					
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual			
ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg			
97320856	FS	Spring Chinook	56	A	Klickitat River	18.9	0.00945	0.315		34.1	0.000341	0.0114		2.57	0.0257	0.857	U	5.66	0.000566	0.0189
97320857	FS	Spring Chinook	56	A	Klickitat River	7.6	0.00380	0.119		20.7	0.000207	0.00647		2.15	0.0215	0.672	U	1.08	0.000108	0.00338
97090980	FS	Steelhead	96		Clearwater River	19.83	0.00992	0.225		42.75	0.000428	0.00972		0.92	0.00920	0.209	U	7.75	0.000775	0.0176
97090981	FS	Steelhead	96		Clearwater River	16.82	0.00841	0.221		44.19	0.000442	0.0116		0.74	0.00740	0.195		5.2	0.000520	0.0137
97090982	FS	Steelhead	96		Clearwater River	20.44	0.0102	0.269		44.37	0.000444	0.0117		0.62	0.00620	0.163	U	5.76	0.000576	0.0152
97090983	WB	Steelhead	96		Clearwater River	21.3	0.0107	0.187		49.03	0.000490	0.00860		1	0.0100	0.175	U	6.23	0.000623	0.0109
97090984	WB	Steelhead	96		Clearwater River	22.31	0.0112	0.189		48.44	0.000484	0.00821		1.07	0.0107	0.181	U	6.51	0.000651	0.0110
97090985	WB	Steelhead	96		Clearwater River	19.12	0.00956	0.168		42.47	0.000425	0.00745		1	0.0100	0.175	U	5.59	0.000559	0.00981
97090986	FS	Steelhead	96		Clearwater River	25.79	0.0129	0.258		56.77	0.000568	0.0114		1.51	0.0151	0.302	U	9.48	0.000948	0.0190
97140810	WB	Steelhead	93	A	Snake River	19.2	0.00960	0.175		43.8	0.000438	0.00796		1	0.0100	0.182	U	5.29	0.000529	0.00962
97140811	WB	Steelhead	93	A	Snake River	13.4	0.00670	0.122		32.3	0.000323	0.00587		1.56	0.0156	0.284	U	3.61	0.000361	0.00656
97140812	WB	Steelhead	93	A	Snake River	19.1	0.00955	0.258		42.1	0.000421	0.0114		1	0.0100	0.270	U	4.61	0.000461	0.0125
97140815	FS	Steelhead	93	A	Snake River	12.8	0.00640	0.168		29.5	0.000295	0.00776		1	0.0100	0.263	U	3.3	0.000330	0.00868
97140816	FS	Steelhead	93	A	Snake River	17.1	0.00855	0.267		39.9	0.000399	0.0125		1	0.0100	0.313	U	4.59	0.000459	0.0143
97140817	FS	Steelhead	93	A	Snake River	14	0.00700	0.189		33.4	0.000334	0.00903		1	0.0100	0.270	U	3.89	0.000389	0.0105
97380978	WB	Steelhead	56		Klickitat River	22.2	0.0111	0.0755		43	0.000430	0.00293		1	0.0100	0.0680	U	1	0.000100	0.000680
97380979	WB	Steelhead	56		Klickitat River	12.9	0.00645	0.0467		27.2	0.000272	0.00197		1	0.0100	0.0725	U	1	0.000100	0.000725
97380980	WB	Steelhead	56		Klickitat River	15.9	0.00795	0.0506		36.2	0.000362	0.00231		1	0.0100	0.0637	U	4.23	0.000423	0.00269
97380990	WB	Steelhead	8	D	Columbia River	15.8	0.00790	0.0622		33.3	0.000333	0.00262		1	0.0100	0.0787	U	3.53	0.000353	0.00278
97380991	WB	Steelhead	8	E	Columbia River	17.1	0.00855	0.0534		33.4	0.000334	0.00209		1	0.0100	0.0625	U	3.24	0.000324	0.00203
97380992	WB	Steelhead	8	F	Columbia River	10.3	0.00515	0.0379		22.3	0.000223	0.00164		1	0.0100	0.0735	U	2.64	0.000264	0.00194
97380993	FS	Steelhead	8	E	Columbia River	13	0.00650	0.0699		28.8	0.000288	0.00310		1	0.0100	0.108	U	3.33	0.000333	0.00358
97380994	FS	Steelhead	8	H	Columbia River	10.5	0.00525	0.0565		24.1	0.000241	0.00259		1	0.0100	0.108	U	2.59	0.000259	0.00278
97380995	FS	Steelhead	8	H	Columbia River	10.9	0.00545	0.0801		25.6	0.000256	0.00376		1	0.0100	0.147	U	3.02	0.000302	0.00444
97380999	E	Steelhead	8	E	Columbia River	7.66	0.00383	0.0330		18.1	0.000181	0.00156		1	0.0100	0.0862	U	1	0.000100	0.000862
97390800	FS	Steelhead	56		Klickitat River	13.8	0.00690	0.0852		33	0.000330	0.00407		1	0.0100	0.123	U	3.6	0.000360	0.00444
97390801	FS	Steelhead	56		Klickitat River	12.6	0.00630	0.0643		27.9	0.000279	0.00285		1	0.0100	0.102	U	3.35	0.000335	0.00342
97390802	FS	Steelhead	56		Klickitat River	11.8	0.00590	0.0578		27.9	0.000279	0.00274		1	0.0100	0.0980	U	4.14	0.000414	0.00406
98064090	FS	Steelhead	8	D	Columbia River	15.5	0.00775	0.176		38.3	0.000383	0.00870		1	0.0100	0.227	U	5.54	0.000554	0.0126
98064091	FS	Steelhead	8	D	Columbia River	11.6	0.00580	0.145		29.2	0.000292	0.00730		1	0.0100	0.250	U	4.72	0.000472	0.0118
98064092	FS	Steelhead	8	F	Columbia River	16.7	0.00835	0.116		37.6	0.000376	0.00522		1	0.0100	0.139	U	5.48	0.000548	0.00761
98064093	WB	Steelhead	8	D	Columbia River	19.7	0.00985	0.145		47.7	0.000477	0.00701		1.41	0.0141	0.207	U	8.15	0.000815	0.0120
98064094	WB	Steelhead	8	F	Columbia River	18.3	0.00915	0.122		43.1	0.000431	0.00575		1	0.0100	0.133	U	6.04	0.000604	0.00805
98064095	WB	Steelhead	8	F	Columbia River	14.3	0.00715	0.0851		36.8	0.000368	0.00438		1.4	0.0140	0.167	U	4.82	0.000482	0.00574
98124150	WB	Steelhead	48	F	Yakima River	12.8	0.00640	0.291		34.6	0.000346	0.0157		3.57	0.0357	1.62	U	3.24	0.000324	0.0147
98124151	WB	Steelhead	48	F	Yakima River	17.6	0.00880	0.303		44	0.000440	0.0152		1.24	0.0124	0.428	U	3.73	0.000373	0.0129
98124152	WB	Steelhead	48	F	Yakima River	13.1	0.00655	0.298		30	0.000300	0.0136		1.17	0.0117	0.532	U	5.96	0.000596	0.0271
98124153	FS	Steelhead	48	F	Yakima River	10.3	0.00515	0.271		23.5	0.000235	0.0124		1.32	0.0132	0.695	U	2.53	0.000253	0.0133
98124154	FS	Steelhead	48	F	Yakima River	16.2	0.00810	0.238		34	0.000340	0.0100		1	0.0100	0.294	U	4.55	0.000455	0.0134
98124155	FS	Steelhead	48	F	Yakima River	14	0.00700	0.233		33.4	0.000334	0.0111		1	0.0100	0.333	U	3.41	0.000341	0.0114
98144100	WB	Steelhead	25		Hood River	24.7	0.0124	0.457		46.7	0.000467	0.0173		3.24	0.0324	1.20	U	4.65	0.000465	0.0172
98144101	WB	Steelhead	25		Hood River	15.5	0.00775	0.221		33.5	0.000335	0.00957		2.29	0.0229	0.654	U	4.03	0.000403	0.0115
98144102	WB	Steelhead	25		Hood River	11	0.00550	0.115		28	0.000280	0.00583		3	0.0300	0.625	U	2.47	0.000247	0.00515
98144103	FS	Steelhead	25		Hood River	11.2	0.00560	0.350		28.4	0.000284	0.0177		2.57	0.0257	1.61	U	2.89	0.000289	0.0181
98144104	FS	Steelhead	25		Hood River	25.4	0.0127	0.529		45.5	0.000455	0.0190		3.94	0.0394	1.64	U	6.2	0.000620	0.0258
98144105	FS	Steelhead	25		Hood River	8.4	0.00420	0.191		21.7	0.000217	0.00986		2.48	0.0248	1.13	U	2.26	0.000226	0.0103
96284741	FS	Walleye	30	B	Umatilla River	1.28	0.00640	0.0427	U	42.6	0.000426	0.0284		0.5	0.00500	0.333	U	7.41	0.000741	0.0494
96284742	FS	Walleye	30	B	Umatilla River	0.73	0.00365	0.0243	U	40.9	0.000409	0.0273		0.75	0.00750	0.500	U	6.71	0.000671	0.0447
96284743	FS	Walleye	30	B	Umatilla River	1.41	0.000705	0.0542	U	44.2	0.000442	0.0340		0.5	0.00500	0.385	U	6.36	0.000636	0.0489
96284744	WB	Walleye	30	B	Umatilla River	1.67	0.000835	0.0104	U	322	0.000322	0.0402		4.91	0.0491	0.614	U	53.2	0.000532	0.0665
97490850	WB	Walleye	7	B	Columbia River	453	0.227	3.28		671	0.00671	0.0972		2.53	0.0253	0.367	U	95.4	0.00954	0.138

Appendix C2. 2,3,7,8-TCDD toxic equivalents (TEQs) for dioxins, furans, and PCBs

Sample Number	Tissue Type	Common Name	Station ID	Subsite ID	Waterbody	PCB 157			PCB 167			PCB 169			PCB 189					
						TEQ Lipid			TEQ Lipid			TEQ Lipid			TEQ Lipid					
						Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual	Conc	TEQ Conc	Norm	Qual			
ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg	ng/kg	ng/kg	ng/kg lipid	ng/kg			
97490851	WB	Walleye	7	D	Columbia River	217	0.109	1.45		362	0.00362	0.0483		2.35	0.0235	0.313	U	58.9	0.00589	0.0785
97080811	FW	White Sturgeon	6	C	Columbia River	168.96	0.0845	1.76		11.01	0.000110	0.00229	U	1.12	0.0112	0.233	U	49.72	0.00497	0.104
97080812	FW	White Sturgeon	6	C	Columbia River	123.59	0.0618	1.63		8.29	0.0000829	0.00218	U	1.39	0.0139	0.366	U	29.93	0.00299	0.0788
97080813	FW	White Sturgeon	6	C	Columbia River	105.57	0.0528	3.52		1.24	0.0000124	0.000827	U	0.69	0.00690	0.460	U	31	0.00310	0.207
97080814	FW	White Sturgeon	6	C	Columbia River	128.62	0.0643	2.07		2.43	0.0000243	0.000784	U	0.84	0.00840	0.271	U	36.26	0.00363	0.117
97080815	FW	White Sturgeon	7	A	Columbia River	66.19	0.0331	0.624		5.29	0.0000529	0.000998	U	0.5	0.00500	0.0943	U	34.32	0.00343	0.0648
97080816	FW	White Sturgeon	7	A	Columbia River	23.05	0.0115	0.640		2.5	0.000025	0.00139	U	0.5	0.00500	0.278	U	14.71	0.00147	0.0817
97080817	FW	White Sturgeon	7	A	Columbia River	123.57	0.0618	0.813		21.49	0.000215	0.00283		2	0.0200	0.263	U	32.81	0.00328	0.0432
97080818	FW	White Sturgeon	8	F	Columbia River	70.6	0.0353	0.861		5.33	0.0000533	0.00130	U	0.55	0.00550	0.134	U	36.43	0.00364	0.0889
97080819	FW	White Sturgeon	8	F	Columbia River	113.08	0.0565	0.565		19.49	0.000195	0.00195		0.55	0.00550	0.0550	U	52.67	0.00527	0.0527
97080820	FW	White Sturgeon	8	F	Columbia River	61.19	0.0306	0.336		9.44	0.0000944	0.00104		0.53	0.00530	0.0582	U	31.62	0.00316	0.0347
97130800	WB	White Sturgeon	8	E	Columbia River	145	0.0725	1.02		14.8	0.000148	0.00208		1.67	0.0167	0.235		60.4	0.00604	0.0851
97130801	WB	White Sturgeon	8	B	Columbia River	400	0.200	2.82		130	0.00130	0.0183		4.7	0.0470	0.662	U	161	0.0161	0.227
97130802	WB	White Sturgeon	8	E	Columbia River	390	0.195	2.53		35	0.000350	0.00455		4.01	0.0401	0.521	U	164	0.0164	0.213
97140800	FW	White Sturgeon	13	E	Snake River	130	0.0650	1.00		40.3	0.000403	0.00620		2.14	0.0214	0.329	U	45.5	0.00455	0.0700
97140801	FW	White Sturgeon	13	E	Snake River	132	0.0660	1.06		41.9	0.000419	0.00676		2.6	0.0260	0.419	U	46.6	0.00466	0.0752
97320850	FW	White Sturgeon	13	F	Snake River	42	0.0210	0.149		15.6	0.000156	0.00111		1.01	0.0101	0.0716	U	15.9	0.00159	0.0113
97320851	FW	White Sturgeon	13	F	Snake River	220	0.110	1.03		158	0.00158	0.0148		1.56	0.0156	0.146	U	98	0.00980	0.0916
97500965	FW	White Sturgeon	9	D	Columbia River	135	0.0675	0.776		24.3	0.000243	0.00279		1.45	0.0145	0.167	U	53.1	0.00531	0.0610
97500966	FW	White Sturgeon	9	B	Columbia River	232	0.116	1.59		25.8	0.000258	0.00353		1.39	0.0139	0.190	U	128	0.0128	0.175
97500967	FW	White Sturgeon	9	B	Columbia River	252	0.126	1.64		28.6	0.000286	0.00371		1.33	0.0133	0.173	U	138	0.0138	0.179
97500968	FW	White Sturgeon	9	A	Columbia River	326	0.163	1.17		78.5	0.000785	0.00565		2.16	0.0216	0.155	U	121	0.0121	0.0871
97500969	WB	White Sturgeon	9	A	Columbia River	197	0.0985	0.887		32.6	0.000326	0.00294		1.49	0.0149	0.134	U	87.7	0.00877	0.0790
97500970	WB	White Sturgeon	9	A	Columbia River	310	0.155	2.63		50	0.000500	0.00847		1.19	0.0119	0.202	U	112	0.0112	0.190
97500971	WB	White Sturgeon	9	A	Columbia River	180	0.0900	1.18		32.2	0.000322	0.00424		1.31	0.0131	0.172	U	65.6	0.00656	0.0863
98024000	WB	White Sturgeon	9	I	Columbia River	200	0.100	0.781		33.1	0.000331	0.00259		1.05	0.0105	0.0820	U	87.2	0.00872	0.0681
98024001	WB	White Sturgeon	9	F	Columbia River	279	0.140	2.36		21.2	0.000212	0.00359		2.12	0.0212	0.359	U	121	0.0121	0.205
98024002	FW	White Sturgeon	9	I	Columbia River	756	0.378	5.18		174	0.00174	0.0238		3.78	0.0378	0.518	U	309	0.0309	0.423
98024003	FW	White Sturgeon	9	I	Columbia River	729	0.365	5.21		167	0.00167	0.0239		4.24	0.0424	0.606	U	303	0.0303	0.433